

GIORGIO·B@RMAC
s.r.l.



CATALOGUE 2022
SCIENTIFIC INSTRUMENTS



ARGO LAB

NEYA
by XS



CATALOGUE 2022

SECTORS

| INDEX | PAG |
|---|-----|
| Electrochemistry | |
| Benchtop Phmeters | 4 |
| Portable Phmeters | 8 |
| Benchtop Conductivity Meters | 14 |
| Portable Conductivity Meters | 18 |
| Benchtop Multiparameters | 24 |
| Portable Multiparameters | 28 |
| Oxymeters | 34 |
| Electrodes | |
| Digital DHS electrodes | 39 |
| Laboratory electrodes | 40 |
| Conductivity cells | 47 |
| Buffer solutions | |
| Calibration solutions | 50 |
| Verify solutions | 52 |
| Tester | |
| Monoparameter | 57 |
| Multiparameter | 60 |
| Balances | |
| Analytical balances | 64 |
| Technical balances | 66 |
| Industrial balances and moisture analyser | 68 |
| Centrifuges | |
| Laboratory centrifuges | 73 |
| Microcentrifuges | 81 |
| Stirrers | |
| Heating magnetic stirrers | 84 |
| Mechanical stirrers | 86 |
| Shaking stirrers | 88 |
| SKI 4 | 90 |
| SKI 8 R | 91 |
| Pipette | 92 |
| Ozone generators | 92 |
| Thermostatisation | |
| Natural oven | 94 |
| Forced oven | 96 |
| Natural incubators | 98 |
| Forced incubators | 100 |
| Cooling incubators | 102 |

| INDEX | PAG |
|---------------------------------------|-----|
| Climatic chamber | 103 |
| Thermostatic baths | 104 |
| Waterbaths | 105 |
| Shaking baths | 106 |
| Ultrasonic baths | 107 |
| Argo Freddo | |
| Refrigerators | 112 |
| Freezer | 113 |
| Thermometers | |
| PT 100 thermometers and PT 100 probes | 116 |
| Thermistor NTC and probes | 118 |
| Thermocouple K/T and probes | 119 |
| Datalogger Mini | 122 |
| Spectrophotometers | |
| Spectrophotometers Onda Touch | 124 |
| Accessories and tubes | 126 |
| Refractometers | |
| Digital refractometers | 132 |
| Optical refractometers | 134 |

ALPHABETICAL ORDER

| INDEX | PAG |
|--------------------|-----|
| Balances | 63 |
| Buffer solutions | 49 |
| Centrifuges | 71 |
| Electrochemistry | 3 |
| Electrodes | 37 |
| Freezer | 113 |
| Refractometers | 125 |
| Refrigerators | 112 |
| Spectrophotometers | 117 |
| Stirrers | 83 |
| Tester | 55 |
| Thermometers | 109 |
| Thermostatisation | 91 |

OUR BRANDS



ARGO LAB

NEYA
by XS



HOW TO ORDER



Telephone: Call +39 059 653 274
Monday to Friday from 8.30 to 12.30
and from 14.00 to 18.00.



e.mail: Send to: export@giorgiobormac.com

Giorgio Bormac s.r.l.

41012 Carpi MO - Via Della Meccanica, 25
tel. +39 059 653 274 - fax +39 059 653 282
www.giorgiobormac.com

pH METERS



PORTABLE
INSTRUMENTS **5**
YEARS WARRANTY

BENCHTOP
INSTRUMENTS **3**
YEARS WARRANTY



COMPANY WITH
QUALITY MANAGEMENT SYSTEM
UNI EN ISO 9001:2015
CERTIFIED BY CERTIQUALITY



HOW TO CHOOSE

| | Violab pH 50 | Violab pH 60 | pH 8+ | pH 80+ |
|-----------------------------|-----------------------|----------------------------------|----------------------------------|----------------------------------|
| Resolution | 0,01 pH | 0,01 pH | 0,01 pH | 0,001 pH |
| Display | coloured LCD | coloured LCD | Coloured graphic | Coloured graphic |
| GLP | <input type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> |
| Calibration password | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> |
| Calibration points | 3 | 3 | 3 | 5 |
| Calibration due alarm | <input type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> |
| Electrode status indication | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> |
| Selective ION | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> |
| Data logger | <input type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> |
| PC / Printer connection | <input type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> |
| Analog view | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> |
| Alarm settings | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> |
| Multilanguage | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> |
| On-Line manual | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> |
| External keyboard | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> |

pH 80+ DHS

- Resolution 0,1 / 0,01 / 0,001 pH
- Backlit coloured high-definition **graphic display**.
- **Data logger** auto and manual, up to **1000 savings in GLP**
- **On line guide** multilanguage
- Alphanumeric **password**
- Graphic **calibration report**

MAIN FEATURES

Automatic calibration up to 5 pH points according GLP with date and time.

IP54 keyboard.

Selectable buffer solutions NIST, USA, DIN or custom (5 values).

ISE calibration up to 5 points.

Calibration report and innovative graphic view of the status of the sensor.

Calibration points indications.

Intuitive menu. **Multilanguage menu**.

Entering company data, operator ID, sample ID and sensor ID via external keyboard (included).

Functions for setting alarms and analog view, "Hold reading" and "Stability" with titration and timed stability mode for ISE.

Calibration due alarm, self-diagnosis messages.

Alphanumeric **password for calibration** management and memory reset.

2 USB outputs for external keyboard connection (included) and PC. RS232 port for printer connection.

Magnetic stirrer with independent control. Quick manual online.

Data Link software freely downloadable from www.xsinstruments.com.



Measuring range:

pH: -2,000...20,000 (0,001 pH)

mV: -2000...+2000 (0,1 mV)

ISE: 0,001...19999ppm

Temperature: -20...120,0 °C (0,1 °C)

Equipped with:

S7/BNC cable, temperature sensor NT 55, electrode holder, buffers solutions, USB cable and power supply.

| Name | Description | p/n |
|----------------------------------|---|----------|
| pH 80+DHS STIRRER | Complete with digital electrode XS Standard DHS, magnetic stirrer with adjustable speed | 50001392 |
| pH 80+DHS STIRRER | Complete with electrode XS Standard, magnetic stirrer with adjustable speed | 50001402 |
| pH 80+DHS STIRRER | Without electrode, with magnetic stirrer with adjustable speed | 50001412 |
| pH 80+DHS BASIC | Complete with digital electrode XS Standard DHS, without magnetic stirrer | 50001442 |
| pH 80+DHS BASIC | Complete with electrode XS Standard S7, without magnetic stirrer | 50001422 |
| pH 80+DHS BASIC | Without electrode and magnetic stirrer | 50001432 |
| KEYBOARD | External soft keyboard with USB cable for 80+ Series | 50001462 |
| IQ-00 MANUAL 80 SERIES | Printed manual IQ-00 for XS 80 Series | 50001472 |

pH 8 + DHS

- Resolution 0,1 / 0,01 pH
- Backlit coloured high-definition **graphic display**.
- **Automatic** and manual **temperature compensation**
- **Data logger** auto and manual, up to **1000 savings** in GLP

MAIN FEATURES

Digital bench multi parameter for pH, mV, ORP and temperature. IP54 keyboard.

Automatic pH calibration from 1 to 3 points according to GLP with date and time.

Selectable buffer solutions NIST, USA and user definable (2 values).

Calibration report and innovative graphic view.

Calibrated points indication.

Manual and automatic **Data Logger** function, up to **1000 savings** with date / time according to GLP.

Intuitive parameter management via icons.

Multilanguage menu.

Functions for setting alarms and analog view, "Hold-reading" and "Stability" with titration mode, calibration due alarm, self-diagnosis messages.

USB output for PC connection and RS232 port for printer connection.

Numeric password for calibration management and memory deletion.

Magnetic stirrer with independent control.

Data Link software freely downloadable from www.xsinstruments.com.

Measuring range:

pH: -2,00...16,00 (0,01 pH)

mV: -1000...+1900 (1 mV)

Temperature: -10...110,0 °C (0,1 °C)



Equipped with:

S7/BNC cable, temperature sensor NT 55, electrode holder, buffers solutions, USB cable and power supply.

| Name | Description | p/n |
|---------------------------------|---|----------|
| pH 8 + DHS STIRRER | Complete with digital electrode XS Standard DHS , magnetic stirrer with adjustable speed | 50001252 |
| pH 8 + DHS STIRRER | Complete with electrode XS Standard , magnetic stirrer with adjustable speed | 50001232 |
| pH 8 + DHS STIRRER | Without electrode, with magnetic stirrer with adjustable speed | 50001242 |
| pH 8 + DHS BASIC | Complete with digital electrode XS Standard DHS , without magnetic stirrer | 50001192 |
| pH 8 + DHS BASIC | Complete with electrode XS Polymer , without magnetic stirrer | 50001202 |
| pH 8 + DHS BASIC | Without electrode and magnetic stirrer | 50001212 |
| MANUAL IQ-00 8 SERIES | Printed manual IQ-00 for XS 8+ Series | 50001472 |

ACCESSORIES 8 / 80 SERIES

| | Description | p/n |
|--------------------------|--|----------|
| MAGNETIC STIRRER | Adjustable speed , with electrode holder and connection cable | 50001132 |
| PRINTER RS 232 | External printer with normal paper for XS 60 VioLab / 8 / 80 series | 50001502 |
| POWER SUPPLY | Power supply 12V/1A for XS 8+ e 80+ series | 50001512 |

pH 60 *Violab*

- Resolution 0,1 / 0,01 pH
- Automatic and manual **temperature compensation**
- Coloured backlit high definition **LCD display**
- **Data logger** auto and manual , up to 1000 savings in *GLP*
- **Automatic calibration up to 3 points**
- **DHS digital sensors** management.

MAIN FEATURES

Professional bench meters with innovative **backlit high definition coloured LCD display**, with possibility of brightness adjustment.

Management of **DHS digital sensors**.

Possibility to select the parameters to show on the display.

The **step by step guide** in setup and calibration allows a simple and immediate use of the device.

Automatic pH calibration with USA and NIST buffers, up to 3 points and 2 points defined by the user.

Automatic ORP calibration on 1 point.

Measurement **stability indication** and possibility to select 3 stability levels.

All operations are constantly monitored and shown to the operator by the **coloured LED** above the display and self-diagnosis messages.

GLP function: Date and time, recall of calibration data and function "Calibration due".

Data logger up to 1000 savings, manual and automatic, PC connection via micro-USB.

Data-Link + software available from www.xsinstruments.com.

RS 232 external printer connection

Measuring range

pH: -2,00...16,00 (0,1 - 0,01 pH)

mV: -1000...+1999 (0,1 - 1 mV)

Temperature: -10...110,0 °C (0,1 °C)

Equipped with:

Electrode holder stand, pH buffer solutions, USB cable, power supply and instructions for use.



| Name | Description | p/n |
|--|--|----------|
| pH 60 VIOLAB DHS ELECTRODE | Complete with digital electrode XS 201 T DHS , with temperature sensor integrated | 50101102 |
| pH 60 VIOLAB ANALOG ELECTRODE | Complete with electrode XS 201 T , with temperature sensor integrated | 50101092 |
| pH 60 VIOLAB WITHOUT ELECTRODE | With accessories, S7-BNC cable, temperature sensor NT 55, without electrode | 50101112 |
| PRINTER RS 232 | External printer with normal paper for XS 60 / 8 / 80 series | 50001502 |

pH 50 Violab

- Resolution 0,1 / 0,01 pH
- Automatic and manual **temperature compensation**
- Coloured backlit high definition LCD display
- **Automatic calibration up to 3 points**
- **DHS digital sensors** management.

MAIN FEATURES

Professional bench meters with innovative **backlit high definition coloured LCD display**, with possibility of brightness adjustment. Management of **DHS digital sensors**.

Possibility to select the parameters to show on the display.

The **step by step guide** in setup and calibration allows a simple and immediate use of the device.

Automatic pH calibration with USA and NIST buffers, up to 3 points and 2 points defined by the user.

Automatic ORP calibration on 1 point.

Measurement **stability indication** and possibility to select 3 stability levels.

All operations are constantly monitored and shown to the operator by the **coloured LED** above the display and self-diagnosis messages.

Measuring range

pH: 0,00...14,00 (0,1 - 0,01 pH)

mV: ±1000 (1 mV)

Temperature: 0...100,0 °C (0,1 °C)



Coloured LCD Display

Equipped with:

Electrode holder stand, pH buffer solutions, and instructions for use.

| Name | Description | p/n |
|--|--|----------|
| pH 50 VIOLAB DHS ELECTRODE | Complete with digital electrode XS 201 T DHS , with temperature sensor integrated | 50101032 |
| pH 50 VIOLAB ANALOG ELECTRODE | Complete with electrode XS 201 T , with temperature sensor integrated | 50101002 |
| pH 50 VIOLAB WITHOUT ELECTRODE | With accessories, S7-BNC cable, temperature sensor NT 55, without electrode | 50101012 |

pH 70 Vio

- Resolution 0,1 / 0,01 pH
- Coloured backlit high definition LCD display
- Automatic and manual **temperature compensation**
- **Data logger** auto and manual , up to 1000 savings in GLP
- GLP functions
- DHS digital sensors management.

MAIN FEATURES

Professional portable multiparameter with **innovative high-resolution colour display**, suitable to work in any conditions, thanks to the automatic and manual brightness adjustment.

Possibility to select the parameters you want to show.

The **step by step guide** in setup and calibration mode allows a simple and intuitive use of the device.

Automatic pH calibration with USA and NIST buffers up to 3 points and 2 points custom defined by the user.

Automatic ORP calibration in 1 point.

Measurement **stability indicator** and possibility of selecting 3 levels of stability.

All operations and errors are constantly monitored and shown to the operator via the **coloured LED** above the display.

GLP function: Date and time, recall of calibration data and function "Calibration due".

Data logger up to 1000 savings, manual and automatic, PC connect via **micro-USB**.

Data-Link + software available from www.xsinstruments.com.

Measuring range

pH: -2,00...16,00 (0,1 - 0,01 pH)

mV: -1000...+1999 (0,1/ 1 mV)

Temperature: -10...+110,0 (0,1 °C)

Equipped with;

coloured buffer solutions of pH, USB cable and power supply, instructions for use and plastic carrying case.



pH 70 Vio Kit
p/n

| Name | Description | p/n |
|---------------------------------------|--|----------|
| pH 70 VIO DHS ELECTRODE | Complete with digital electrode XS 201 T DHS , with temperature sensor integrated | 50110182 |
| pH 70 VIO ANALOG ELECTRODE | Complete with electrode XS 201 T , with temperature sensor integrated | 50110112 |
| pH 70 VIO WITHOUT ELECTRODE | With accessories, S7-BNC cable, temperature sensor NT 55, without electrode | 50110122 |
| pH 70 VIO FOOD DHS | Complete with penetration digital electrode XS 2 Pore DHS , for food applications | 50110192 |
| pH 70 VIO FOOD | Complete with penetration electrode XS 2 Pore T , for food applications | 50110162 |
| POWER SUPPLY | Power supply USB for XS 70 Vio Series | 50010172 |

pH 7 Vio

- Resolution 0,1 / 0,01 pH
- Coloured backlit high definition LCD display
- Automatic and manual temperature compensation
- DHS digital sensors management.

MAIN FEATURES

Professional portable multiparameter with **innovative high-resolution colour display**, suitable to work in any conditions, thanks also to the possibility to adjust automatically and manually contrast and brightness of the display. Possibility to select the parameters you want to show.

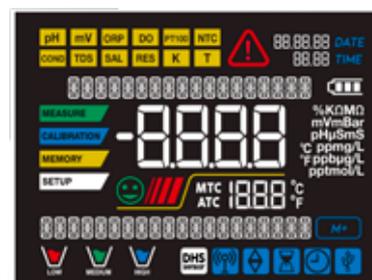
The guide onboard in setup and calibration mode allows a simple and intuitive use of the device.

Automatic pH calibration with USA and NIST buffers up to 3 points and 2 points custom defined by the user.

Automatic ORP calibration in 1 point.

Measurement stability indicator and possibility of selecting 3 levels of stability.

All operations and errors are constantly monitored and shown to the operator via the **coloured LED** above the display.



Coloured LCD display

Measuring range

pH: 0,00...14,00 (0,1 - 0,01 pH)
 mV: - 1000... + 1000 (1 mV)
 Temperature: 0...+100,0 (0,1 °C)

Equipped with:

coloured buffer solutions of pH, instructions for use and plastic carrying case.

| Name | Description | p/n |
|--------------------------------------|--|----------|
| pH 7 VIO DHS ELECTRODE | Complete with digital electrode XS 201 T DHS , with temperature sensor integrated | 50110072 |
| pH 7 VIO ANALOG ELECTRODE | Complete with electrode XS 201 T , with temperature sensor integrated | 50110012 |
| pH 7 VIO WITHOUT ELECTRODE | With accessories, S7-BNC cable, temperature sensor NT 55, without electrode | 50110022 |
| pH 7 VIO FOOD DHS | Complete with penetration digital electrode XS 2 Pore DHS , for food applications | 50110082 |
| pH 7 VIO FOOD | Complete with penetration electrode XS 2 Pore T , for food applications | 50110032 |
| pH 7 VIO GEL | Complete with pH Gel electrode , plastic body, 1 m cable with BNC, T sensor NT55 | 50110062 |

ACCESSORIES pH

pH ELECTRODES

| Name | Description | p/n |
|---|--|----------|
| XS STANDARD DHS DIGITAL pH ELECTRODE | Digital pH electrode combined with DHS technology. Glass body and cylindrical membrane for general applications. Refillable KCl 3M electrolyte. Excellent chemical resistance and easy to clean. Included with serial number and certificate. Dimensions (LxØ) mm 120x12 - pH 0...14 - Temperature -10...100 °C | 32200123 |
| XS STANDARD PH ELECTRODE | pH Electrode combined with S7 head. Glass body, for general use. Refillable KCl 3M Electrolyte. Excellent chemical resistance and easy to clean. With serial number and certificate. Dimensions (LxØ) mm 120x 12 - pH 0...14 - Temperature -10...100 °C. | 32200363 |
| XS POLYMER S7 | Combined pH Electrode S7 head. Glass Body for general use. Cylindrical membrane. Polymer filling, open pore. For a fast response with high accuracy in samples that might contaminate normal diaphragms. Maintenance-free. Dimensions (LxØ) mm 120x12 - pH 0...14 - Temperature -10...80 °C | 32200223 |
| 201 T DHS DIGITAL pH ELECTRODE | Digital pH electrode combined with DHS technology. Plastic body for general use. Gel Filling, ceramic diaphragm. Maintenance-free. Dimensions (LxØ) mm 120x12. pH 0...14 - Temperature 0...60 °C | 32200103 |
| 201 T PH ELECTRODE | Combined pH electrode with NTC temperature sensor integrated. Epoxy body for general applications. Polymer filling with ceramic diaphragm. Maintenance-free. Fixed cable 1 mt., BNC + RCA plug. Dimensions (LxØ) mm 120x12 - pH 0...14 - Temperature 0...60 °C | 50002002 |
| 201 T / 5 PH ELECTRODE | Combined pH electrode with NTC temperature sensor integrated. Epoxy body for general applications. Polymer filling with ceramic diaphragm. Maintenance-free. Fixed cable 5 mt., BNC + RCA plug. Dimensions (LxØ) mm 120x12 - pH 0...14 - Temperature 0...60 °C | 50002022 |
| XS 2 PORE DHS DIGITAL pH ELECTRODE | Digital pH electrode combined with DHS technology. Glass Body. Filled with polymer, maintenance-free. Penetration tip, Ideal for meats and cheese samples. Dimensions (LxØ) mm 35x6 - pH 0...14, Temperature 0...60 °C | 32200113 |
| XS 2 PORE T BNC + RCA | Glass Body. Filled with polymer, maintenance-free. With temperature sensor integrated NTC 30 KΩ, Penetration tip. Ideal for meats and cheese samples Fixed cable 1 mt length, pH 0...14, Temperature 0...60 °C | 32200323 |
| pH GEL ELECTRODE | Plastic body. For XS 7 / 70 Vio Series. Cable length 1 m, BNC plug. pH 0...14, Temperature 0...60 °C | 32105223 |

REDOX ELECTRODES

| | | |
|-------------------------------------|--|----------|
| REDOX ELECTRODE REDOX | Fix cable 1 m, BNC connector, epoxy body. Gel filling, double junction, maintenance-free. Ceramic diaphragm. Range ± 1.000 mV, Temperature 0...60 °C. Dimensions (LxØ) 120 x 12 mm | 32105302 |
| REDOX / 5 ELECTRODE REDOX | Fix cable 5 m, BNC connector, epoxy body. Gel filling, double junction, maintenance-free. Ceramic diaphragm. Range ± 1.000 mV, Temperature 0...60 °C. Dimensions (LxØ) 120 x 12 mm | 32105102 |

CONNECTING CABLE

Connecting cable with S7 head and BNC plug for XS pH-meter.
Diameter 3 mm, length 1 m.



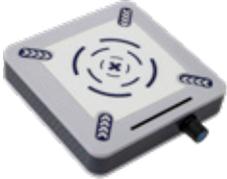
STORAGE SOLUTION

| Name | Pack | p/n |
|----------------------------------|--------|----------|
| Storage solutions for electrodes | 55 ml | 32208043 |
| Storage solutions for electrodes | 500 ml | 32208053 |

TEMPERATURE SENSORS

| | | |
|------------------------------------|---|----------|
| NT 55 TEMPERATURE SENSOR | Temperature sensor NTC 30 K for XS instruments, for liquids and air. | 50002012 |
| NT 7P TEMPERATURE SENSOR | Temperature sensor NTC 30 K, penetration tip , diameter 4 mm, cable fix 1m | 50011122 |

ACCESSORIES

| Name | Description | | p/n |
|--|---|---|----------|
| ST 10 MAGNETIC STIRRER | Magnetic stirrer, adjustable speed , with rechargeable batteries, magnetic bar and power supply. |  | 50000132 |
| ELECTRODE HOLDER MOD: 3900 | Flexible electrode holder |  | 50000112 |
| PRINTER | External printer with normal paper for XS 8 / 80 SERIES XS VIOLAB 60 power supply and RS 232 cable |  | 50001502 |
| POWER SUPPLY VIO - PORTABLE | Power supply and cable for XS Vio portable series |  | 50110172 |
| POWER SUPPLY VIOLAB - BENCHTOP | Power supply and cable for XS VioLab benchtop series |  | 50001052 |

STANDARD BUFFER SOLUTION

With certificate of analysis downloadable from www.xsinstruments.com



○ SACHETS 25 ml

| Name | Description | p/n |
|------------------------|---|----------|
| pH 4.01 (25°C) | Pack of 20 sachets 25 ml, red, with certificate of analysis | 51102013 |
| pH 7.00 (25°C) | Pack of 20 sachets 25 ml, green, with certificate of analysis | 51102023 |
| pH 10.01 (25°C) | Pack of 20 sachets 25 ml, with certificate of analysis | 51102043 |
| SET CAL pH BIS | Pack of 20 sachets 25ml (10 x pH 4.01 and 10 x pH 7.00) | 51102203 |
| SET CAL pH BIS | Pack of 20 sachets 25ml (7 x pH 4.01, 7 x pH 7.00 and 6 x pH 10.01) | 51102213 |
| STORAGE | Pack of 20 sachets 10 ml, pH/ORP Sensor Storage Solution | 51102083 |
| H2O | Pack of 20 sachets 25ml, Distilled water for sensor cleaning | 51102093 |

○ BOTTLE 250 ml with calibration compartment integrated

| Name | Description | p/n |
|-----------------|---------------------------|----------|
| pH 4,01 | ±0,01 / 25°C - Red | 51100033 |
| pH 7,00 | ±0,01 / 25°C - Green | 51100043 |
| pH 10,01 | ±0,02 / 25°C - Uncoloured | 51100063 |

○ BOTTLE 500 ml with calibration compartment integrated

| Name | Description | p/n |
|-----------------|---------------------------|----------|
| pH 4,01 | ±0,01 / 25°C - Red | 51100133 |
| pH 7,00 | ±0,01 / 25°C - Green | 51100143 |
| pH 10,01 | ±0,02 / 25°C - Uncoloured | 51100163 |



Brochures **XS Vio** and **XS VioLab** are available on our website www.xsinstruments.com

CONDUCTIVITY METERS



PORTABLE
INSTRUMENTS **5**
YEARS WARRANTY

BENCHTOP
INSTRUMENTS **3**
YEARS WARRANTY



COMPANY WITH
QUALITY MANAGEMENT SYSTEM
UNI EN ISO 9001:2015
CERTIFIED BY CERTIQUALITY



HOW TO CHOOSE

| | Violab COND 50 | Violab COND 60 | COND 8+ | COND 80+ |
|-------------------------------|-------------------|-------------------|----------------|----------------|
| COND and TDS | ● | ● | ● | ● |
| Salinity | ○ | ● | ● | ● |
| Resistivity | ○ | ○ | ○ | ● |
| Ultra pure water compensation | ○ | ○ | ○ | ● |
| Display | colour bcklit LCD | colour bcklit LCD | Colour graphic | Colour graphic |
| GLP Calibration | ○ | ● | ● | ● |
| Calibration password | ○ | ○ | ● | ● |
| Calibration points | 4 | 4 | 4 | 4 |
| Calibration due alarm | ○ | ● | ● | ● |
| Electrode status indication | ○ | ○ | ● | ● |
| Data logger | ○ | ● | ● | ● |
| PC / printer connection | ○ | ● | ● | ● |
| Multilanguage menu | ○ | ○ | ● | ● |
| Online guide | ○ | ○ | ○ | ● |
| External keyboard | ○ | ○ | ○ | ● |

COND 80+

- Resolution 0,01 μ S
- Coloured backlit high definition LCD display
- Automatic and manual **temperature compensation**
- **Data logger** auto and manual , up to 1000 savings in GLP
- **Online guide** multilanguage
- **Alphanumeric password**

MAIN FEATURES

Simultaneous view of COND and temperature. IP54 keyboard.

Automatic and manual EC calibration

with 4 standard recognition (84; 1413 μ S, 12,88 and 111,8 mS) up to 4 points with calculation of the different cell constants and a standard defined by the user.

Automatic scale. Reference temperature (15...30°C).

Linear temperature coefficient(0,00...10,00%) and non linear for ultra pure water. Selectable cell constant (C = 0,1- 1- 10,0).

Calibration points indications.

Intuitive menu. **Multilanguage menu.**

Entering company data, operator ID, sample ID and sensor ID via external keyboard (included). Functions for setting alarms and analog format, "Hold reading" and "Stability" with titration and timed stability mode for ISE.

Calibration due alarm, self-diagnosis messages. **Alphanumeric password** for calibration management and memory reset.

2 USB outputs for external keyboard connection (included) and PC. RS232 port for printer connection.

Magnetic stirrer with independent control. Quick manual online.

Data Link+ software freely downloadable from www.xsinstruments.com.



Measuring range:

Cond: 0,0 μ S ...1000 mS (0,01 μ S - automatic)

Resistivity: 1 Ω ...10 M Ω

Salinity: 0,01...100,0 ppt

TDS: 0,01 mg/l...500,0 g/l

Temperature: -20... +120,0 (0,1 °C)

Equipped with:

Electrode holder stand, conductivity standard, external keyboard, USB cable, power supply and user manual.

| Name | Description | p/n |
|-------------------------------|---|----------|
| COND 80+ STIRRER | Complete with EC cell VPT 1 glass/platinum (C=1) with temperature sensor integrated, and magnetic stirrer with adjustable speed | 50003402 |
| COND 80+ STIRRER | Without EC cell, with magnetic stirrer with adjustable speed | 50003412 |
| COND 80+ BASIC | Complete with EC cell VPT 1 glass/platinum (C=1) with temperature sensor integrated, without magnetic stirrer | 50003422 |
| COND 80+ BASIC | Without EC cell and magnetic stirrer | 50003432 |
| KEYBOARD | Soft external keyboard for XS 80 Series | 50001462 |
| IQ-OQ MANUAL 80 SERIES | Paper manual IQ-OQ for XS 80 Series | 50001472 |

COND 8 +

- Resolution 0,01 μ S
- Coloured backlit high definition LCD display
- Automatic and manual **temperature compensation**
- **Data logger** auto and manual , up to 1000 savings in GLP



MAIN FEATURES

Digital bench multi parameter for COND, TDS, Salinity, **temperature**. IP54 keyboard.

Simultaneous display of COND and Temperature.

Automatic and manual conductivity calibration with recognition of 4 standards (84; 1413 μ S, 12.88 and 111,8 mS) from 1 to 4 points with calculation of the different cell constants and a standard defined by the user.

Automatic scale, Reference temperature (15... 30 °C), Linear temperature coefficient (0.00 ... 10.00%), selectable cell constant (C = 0.1- 1- 10.0) .

Calibrated points indication.

Manual and automatic **Data Logger** function, up to 1000 savings with date / time according to GLP.

Intuitive parameter management via icons. Multilanguage menu.

Functions for setting alarms and displaying in analog format, "Hold-reading" and "Stability" with titration mode, **calibration due alarm**, self-diagnosis messages.

USB output for PC connection and RS232 port for printer connection.

Numeric password for calibration management and memory deletion.

Magnetic stirrer with independent control.

Data Link + software freely downloadable from www.xsinstruments.com.

Measuring range:

Cond: 0,0 μ S ...200 mS (0,01 μ S - automatic)

Salinity: 0,01...100,0 ppt

TDS: 0,01 mg/l...100,0 g/l

Temperature: -10...+110,0 (0,1 °C)

Equipped with:

Electrode holder stand, conductivity standard, USB cable, power supply and user manual.

| Name | Description | p/n |
|------------------------------|---|----------|
| COND 8 + STIRRER | Complete with epoxy EC cell 2301T (C=1) temperature sensor integrated, and magnetic stirrer with adjustable speed | 50003232 |
| COND 8 + STIRRER | Without EC cell, with magnetic stirrer with adjustable speed | 50003242 |
| COND 8 + BASIC | Complete with epoxy EC cell 2301T (C=1) temperature sensor integrated, without magnetic stirrer | 50003202 |
| COND 8 + BASIC | Without EC cell and magnetic stirrer | 50003212 |
| IQ-00 MANUAL 8 SERIES | Paper manual IQ-00 for XS 8 Series | 50001472 |

ACCESSORIES 8 / 80 SERIES

| Name | Description | p/n |
|----------------|--|----------|
| PRINTER | External printer with normal paper for XS VIOLAB 60 - 8 - 80 | 50001502 |
| STIRRER | Magnetic stirrer with adjustable speed for XS 8+ and 80+ series, complete with electrode holder and connecting cable | 50001132 |

COND 60 *Violab*

- Resolution 0,01 μS
- Coloured backlit high definition LCD display
- Automatic and manual temperature compensation
- Data logger auto and manual , up to 1000 savings in GLP
- PC/Printer connection



MAIN FEATURES

Professional bench meters with innovative **backlit high definition coloured LCD display**, with possibility of brightness adjustment.

Possibility to select the parameters to show on the display.

The **step by step guide** in setup and calibration allows a simple and immediate use of the device.

Automatic conductivity calibration up to 4 points (84; 147; 1413 μS e 12,88; 111,8 mS) and 1 point custom.

Automatic resolution, reference temperature from 15 to 30 °C, and selectable cell constant (C= 0,1; 1; 10).

Indication of the calibrated points, with icons.

Measurement stability indication.

All operations are constantly monitored and shown to the operator by the **coloured LED** above the display and **self-diagnosis messages**.

GLP function: Date and time, recall of calibration data and function "Calibration due".

Data logger up to 1000 savings, manual and automatic, PC connection via micro-USB.

Data-Link + software available from www.xsinstruments.com.

RS 232 external printer connection.

Measuring range

Cond: 0,0 μS ...199,9 mS (0,01 μS - automatic)

Salinity: 0,1 ppm ... 100 ppt

TDS: 0,01 mg/l...200 g/l

Temperature: - 10...+ 110,0 (0,1 °C)



Equipped with:

Electrode holder stand, conductivity standard, USB cable, power supply and instructions for use.

| Name | Description | p/n |
|--|---|----------|
| COND 60 VIOLAB WITH EC CELL | Complete with conductivity cell I2301T , temperature sensor integrated, 1 m cable | 50103072 |
| COND 60 VIOLAB WITHOUT EC CELL | With accessories, without conductivity cell | 50103082 |

COND 50 *Violab*

- Resolution 0,01 μ S
- Coloured backlit high definition LCD display
- Automatic and manual temperature compensation



MAIN FEATURES

Professional bench meters with **innovative backlit high definition coloured LCD display**, with possibility of brightness adjustment. Possibility to select the parameters to show on the display.

The **step by step guide** in setup and calibration allows a simple and immediate use of the device.

Automatic conductivity calibration up to 4 points (84; 147; 1413 μ S e 12,88; 111,8 mS) and 1 point custom.

Automatic resolution, reference temperature from 15 to 30 °C, and selectable cell constant (C= 0,1; 1; 10).

Indication of the calibrated points, with icons.

Measurement **stability indication**.

All operations are constantly monitored and shown to the operator by the **coloured LED** above the display and **self-diagnosis messages**.

Measuring range:

Cond 0,0 μ S ...199,9 mS (0,01 μ S - automatic)

TDS: : 0,01 mg/l...200 g/l

Temperature: 0...+100,0 (0,1 °C)



Equipped with:

Electrode holder stand, conductivity standard and instructions manual.

| Name | Description | p/n |
|--|--|----------|
| COND 50 VIOLAB WITH EC CELL | Complete with conductivity cell 2301T , temperature sensor integrated, 1 m cable | 50103002 |
| COND 50 VIOLAB WITHOUT EC CELL | With accessories, without conductivity cell | 50103012 |

Cond 70 Vio

- Resolution 0,01 μ S
- Automatic and manual **temperature compensation**
- **Automatic calibration** on 4 standard points and 1 custom
- **Data logger** auto and manual , **up to 1000 savings in GLP**
- Coloured backlit high definition **LCD display**
- **GLP functions**

MAIN FEATURES

Professional portable meter with innovative **backlit high definition coloured LCD display**, suitable to work in any conditions, thanks also to the possibility to adjust automatically and manually contrast and brightness of the display. Possibility to select the parameters you want to show.

The **step by step guide** in setup and calibration mode allows a simple and intuitive use of the device.

Automatic calibration of conductivity up to 4 points and 1 point custom defined by the user.

Adjustable reference temperature and selectable cell constant.

Indication with icons of the calibrated points.

Measurement **stability indicator**.

All operations and errors are constantly monitored and shown to the operator via the **coloured LED** above the display.

GLP function: Date and time, recall of calibration data and function **"Calibration due"**.

Data logger up to 1000 savings, manual and automatic, PC connection via **micro-USB**.

Data-Link + software available from www.xsinstruments.com.

Measuring range:

Cond: 0,01 μ S ... 200,0 mS (0,01 μ S - automatic)

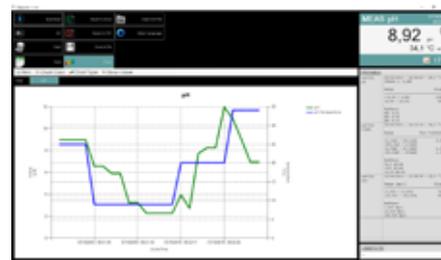
Salinity: 0,1 ppm ... 100 ppt

TDS: 0,01 mg/l ... 200,0 g/l

Temperature: -10...+110,0 (0,1 $^{\circ}$ C)

Equipped with:

Conductivity standard, USB cable, power supply, user manual and carrying case.



Data Link Software

| Name | Description | p/n |
|---------------------------------|---|----------|
| COND 70 VIO WITH CELL | Complete with conductivity cell 2301T with temperature sensor integrated. Cable 1 m | 50110512 |
| COND 70 VIO WITHOUT CELL | With accessories, without conductivity cell | 50110522 |

Cond 7 Vio

- Resolution 0,01 μ S
- Automatic and manual **temperature compensation**
- Coloured backlit high definition **LCD display**
- **Automatic calibration** on 4 standard points and 1 custom
- 3 selectable **cell constants**

MAIN FEATURES

Professional portable conductivity meter with innovative **backlit high definition coloured LCD display**, suitable to work in any conditions, thanks also to the possibility to adjust automatically and manually contrast and brightness of the display.

The **step by step guide** in setup and calibration mode allows a simple and intuitive use of the device.

Automatic calibration of conductivity up to 4 points and 1 point custom defined by the user.

Adjustable reference temperature and selectable cell constant.

Indication with icons of the calibrated points.

Measurement **stability indicator** and possibility of selecting 3 levels of stability. All operations and errors are constantly monitored and shown to the operator via the **coloured LED** above the display.



Cond 7 Vio Kit

Measuring range:

Cond: 0,1 μ S ... 200 mS (0,01 μ S - automatic)

TDS: 0,01 mg/l ... 200,0 g/l

Temperature: 0 ... 100,0 (0,1 $^{\circ}$ C)

Equipped with:

Conductivity standard, user manual and carrying case.

| Name | Description | p/n |
|--------------------------------|---|----------|
| COND 7 VIO WITH CELL | Complete with conductivity cell 2301T with temperature sensor integrated. 1 m cable | 50110412 |
| COND 7 VIO WITHOUT CELL | With accessories, without conductivity cell | 50110422 |

ACCESSORIES

CONDUCTIVITY CELL

| Name | Description | p/n |
|------------------------------|--|----------|
| VP 1 EC CELL | Cell in glass body with platinum plates C=1, fixed cable 1 mt. with BNC plug. Measuring range: 10µS...10 mS – Temperature 0...80 °C | 50004062 |
| VPT 1 EC CELL | Cell in glass body with platinum plates C=1, with temperature sensor integrated. Fixed cable 1 mt., BNC + RCA Cinch plug. Measuring range: 10µS...100 mS – Temperature 0...80 °C | 50003352 |
| VPT 01 EC CELL | Steel and PVC cell, C=0,1, with temperature sensor integrated. Fixed cable 1 mt., BNC + RCA plug. Measuring range: 0,1µS...1 mS – Temperature 0...60 °C | 50004012 |
| VPT 10 EC CELL | Cell in glass body with platinum plates C=10, temperature sensor integrated, fixed cable 1 mt. BNC + RCA Cinch plug. Measuring range: 100µS...200 mS.. | 50004072 |
| VPT 10 H EC CELL | Cell in glass body with platinum plates C=10, temperature sensor integrated, fixed cable 1 mt. BNC + RCA Cinch plug. Measuring range: 100µS...500 mS. Only for XS COND 80+ | 50003372 |
| 2301 T EC CELL | Cell in epoxy body C=1, with temperature sensor integrated. Fixed cable 1 mt. BNC+RCA cinch plug. Measuring range: 10µS...200 mS – Temperature 0...60 °C | 50004002 |
| 2301 T / 5 EC CELL | Cell in epoxy body C=1, with temperature sensor integrated. Fixed cable 5 mt. BNC+RCA cinch plug. Measuring range: 10µS...200 mS – Temperature 0...60 °C | 50004022 |
| VPT SOIL EC CELL | Conductivity cell with temperature sensor integrated and penetration tip, C=1, for soil measurement, cable 1,5 m. Measuring range 10 µS...50 mS | 50004082 |

BUFFER SOLUTIONS

With certificate of analysis downloadable from www.xsinstruments.com

○ SACHETS 25 ml

| Name | Description | p/n |
|------------------------------|--|----------|
| EC 1413 µS/cm (25°C) | Pack of 20 sachets, with certificate of analysis | 51102053 |
| EC 12880 µS/cm (25°C) | Pack of 20 sachets, with certificate of analysis | 51102063 |
| SET CAL COND | Includes 10 x EC 1.413 µS and 10 x EC 12.880 µS | 51102223 |
| COND REPLACEMENT | Includes 7 x EC 1.413 µS, EC 12.880 µS and 6 x deionized H2O | 51102253 |
| H2O | Pack of 20 sachets of deionized water | 51102093 |



○ BOTTLE 500 ml , with calibration compartment

| Name | Description | p/n |
|----------------------------|--|----------|
| 84 µS/cm (25°C) | N.I.S.T. Accuracy ±1% | 51100613 |
| 147 µS/cm (25°C) | N.I.S.T Accuracy ±1% | 51100623 |
| 1413 µS/cm (25°C) | 1278 µS/cm (20°C) - N.I.S.T. Accuracy ±1% | 51100633 |
| 12.880 µS/cm (25°C) | 11670 µS/cm (20°C) - N.I.S.T. Accuracy ±1% | 51100643 |



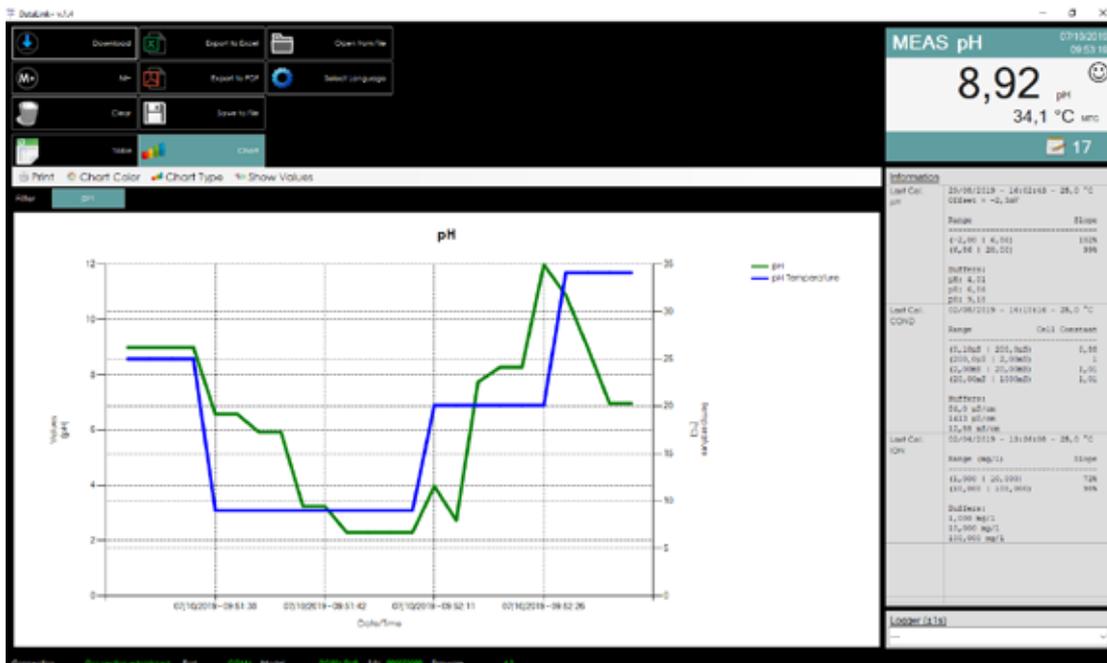
TEMPERATURE SENSOR

| Name | Description | p/n |
|------------------------------------|---|----------|
| NT 55 TEMPERATURE SENSOR | Temperature sensor for XS VioLab series | 50002012 |

ACCESSORIES

| Name | Description | | p/n |
|--|--|---|----------|
| ST 10 MAGNETIC STIRRER | Magnetic stirrer, adjustable speed, with rechargeable batteries, magnetic bar and power supply. |  | 50000132 |
| ELECTRODE HOLDER MOD: 3900 | Flexible electrode holder |  | 50000112 |
| PRINTER | External printer with normal paper for XS 8 / 80 SERIES XS VIOLAB 60 power supply and RS 232 cable |  | 50001502 |
| POWER SUPPLY VIO - PORTABLE | Power supply and cable for XS Vio portable series |  | 50110172 |
| POWER SUPPLY VIOLAB - BENCHTOP | Power supply and cable for XS VioLab benchtop series |  | 50001052 |

DATA LINK +



On the software are shown all the informations about the instruments and calibrations, like slope and offset. It is possible to view all saved data in graphic form, to see the trend, or in table form. It is also possible to export datas in Excel and in PDF. On the top right corner the real time view allows to check measurement directly on the PC. Multilanguage: English - Italian - French - German - Spanish - Czech. And then there are a lot of functions for the remote control of the instruments, like data saving and memory reset.

Software **Data Link +** available for free on our website www.xsinstruments.com.



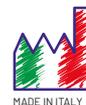
Brochures **XS Vio** and **XS VioLab** are available on our website www.xsinstruments.com

MULTIPARAMETERS



PORTABLE
INSTRUMENTS **5**
YEARS WARRANTY

BENCHTOP
INSTRUMENTS **3**
YEARS WARRANTY



COMPANY WITH
QUALITY MANAGEMENT SYSTEM
UNI EN ISO 9001:2015
CERTIFIED BY CERTIQUALITY



HOW TO CHOOSE

| | Violab PC50 | Violab PC 60 | PC 8+ | PC 80+ |
|-------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| pH Resolution | 0,01 pH | 0,01 pH | 0,01 pH | 0,001 pH |
| ION | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> |
| COND e TDS | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> |
| Salinity | <input type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> |
| Resistivity | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> |
| Ultra pure water compensation | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> |
| Display | colour backlit LCD | colour backlit LCD | colour graphic | colour graphic |
| Analogic view | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> |
| GLP Calibration | <input type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> |
| Calibration password | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> |
| Calibrations points | 3 | 3 | 3 | 5 |
| Calibration due alarm | <input type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> |
| Electrode status indication | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> |
| Data logger | <input type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> |
| PC / Printer connection | <input type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> |
| Multilanguage | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> | <input checked="" type="radio"/> |
| Online guide | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> |
| External keyboard | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> |

PC 80+ DHS

- Resolution 0,1 / 0,01 / 0,001 pH - 0,01 μ S
- Backlit coloured high-definition **graphic display**.
- **Data logger** auto and manual, up to **1000 savings in GLP**
- **On line guide** multilanguage
- Alphanumeric **password**
- Graphic **calibration report**

MAIN FEATURES

Simultaneous view of pH/COND and temperature.

Automatic calibration up to 5 pH points according GLP with date and time. **IP54** keyboard.

Selectable buffers NIST, USA, DIN or custom (5 values). **ISE calibration up to 5 points**.

Calibration report and innovative graphic view of the status of the sensor.

Calibration points indications.

Automatic and manual EC calibration with 4 standard recognition (84; 1413 μ S, 12,88 and 111,8 mS) up to 4 points with calculation of the different cell constants and a standard defined by the user.

Automatic scale. Reference temperature (15...30°C).

Linear temperature coefficient (0,00...10,00%) and non linear for ultra pure water. Selectable cell constant (C = 0,1-1-10,0).

Calibration points indications.

Intuitive menu. **Multilanguage menu.**

Entering company data, operator ID, sample ID and sensor ID via external keyboard (included).

Functions for setting alarms and analog format, "Hold reading" and "Stability" with titration and timed stability mode for ISE.

Calibration due alarm, self-diagnosis messages.

Alphanumeric password for calibration management and memory reset.

2 USB outputs for external keyboard connection (included) and PC. RS232 port for printer connection.

Magnetic stirrer with independent control. Quick manual online.

Data Link software freely downloadable from www.xsinstruments.com.

Measuring range:

pH: -2,000...20,000 (0,001 pH)

mV: -2000...+2000 (0,1 mV)

ISE: 0.001...19999 ppm

Cond: 0,0 μ S ...1000 mS (0,1 μ S - automatic)

Resistivity: 1 Ω ...10 M Ω

Salinity: 0,01...100,0 ppt

TDS: 0,1 mg/l...500,0 g/l

Temperature: -20...120,0 °C (0,1 °C)

Equipped with:

S7/BNC cable, temperature sensor NT 55, electrode holder, buffer solutions, USB cable and power supply.



| Name | Description | p/n |
|--------------------------|--|----------|
| PC 80+DHS STIRRER | Complete with pH XS Standard DHS, EC cell VPT 1 glass/platinum (C=1) with temperature sensor incorporated, magnetic stirrer with adjustable speed. | 50004232 |
| PC 80+DHS STIRRER | Complete with pH XS Standard, EC cell VPT 1 glass/platinum (C=1) with temperature sensor incorporated, magnetic stirrer with adjustable speed. | 50004242 |
| PC 80+DHS STIRRER | Without pH electrode, conductivity cell VPT 1 glass/platinum (C=1) with temperature sensor incorporated, magnetic stirrer with adjustable speed. | 50004252 |
| PC 80+DHS STIRRER | With pH electrode XS Standard, without conductivity cell, magnetic stirrer with adjustable speed. | 50004262 |
| PC 80+DHS STIRRER | Without pH electrode, without conductivity cell, with magnetic stirrer with adjustable speed. | 50004272 |

PC 8 + DHS

- Resolution 0,1 / 0,01 pH - 0,01 μS
- Backlit coloured high-definition **graphic display**.
- **Automatic** and manual **temperature compensation**
- **Data logger** auto and manual, up to **1000 savings in GLP**

MAIN FEATURES

Digital bench multi parameter **pH, mV, COND, TDS, Salinity, temperature**. IP54 keyboard.

Simultaneous display of pH / COND and Temperature.

Automatic pH calibration from 1 to 3 points according to GLP with date and time.

Selectable buffer NIST, USA or custom (2 values).

Calibration report and innovative graphic view.

Calibrated points indication.

Automatic and manual conductivity calibration with recognition of 4 standards (84; 1413 μS, 12.88 and 111,8 mS) from 1 to 4 points with calculation of the different cell constants and a standard defined by the user.

Automatic scale, Reference temperature (15... 30 °C),

Linear temperature coefficient (0.00 ... 10.00%), selectable cell constant (C = 0.1- 1- 10.0) .

Calibrated points indication.

Manual and automatic **Data Logger** function, **up to 1000 savings with date / time according to GLP**.

Intuitive parameter management via icons. Multilanguage menu.

Functions for setting alarms and displaying in analog format, "Hold-reading" and "Stability" with titration mode, calibration due alarm, self-diagnosis messages.

USB output for PC connection and RS232 port for printer connection.

Numeric password for calibration management and memory deletion. Magnetic stirrer with independent control.

Data Link software freely downloadable from www.xsinstruments.com.

Measuring range:

pH: -2,00...16,00 (0,01 pH)

mV: -2000...+2000 (1 mV)

Temperature: -10...110,0 °C (0,1 °C)

Cond: 0,0 μS ...200 mS (automatic)

Salinity: 0,01...100,0 ppt

TDS: 0,1 mg/l...100,0 g/l

Equipped with:

S7/BNC cable, temperature sensor NT 55, electrode holder, buffer solutions, USB cable and power supply.



PC

| Name | Description | p/n |
|---------------------------|--|----------|
| PC 8 + DHS STIRRER | Complete with pH XS Standard DHS, EC cell VPT 1 glass/platinum (C=1) with temperature sensor incorporated, magnetic stirrer with adjustable speed. | 50004132 |
| PC 8 + DHS STIRRER | Complete with pH XS Standard, EC cell VPT 1 glass/platinum (C=1) with temperature sensor incorporated, magnetic stirrer with adjustable speed. | 50004142 |
| PC 8 + DHS STIRRER | Without pH electrode, conductivity cell VPT 1 glass/platinum (C=1) with temperature sensor incorporated, magnetic stirrer with adjustable speed. | 50004152 |
| PC 8 + DHS STIRRER | With pH electrode XS Polymer, without conductivity cell, magnetic stirrer with adjustable speed. | 50004162 |
| PC 8 + DHS STIRRER | Without pH electrode, and without conductivity cell, with magnetic stirrer with adjustable speed. | 50004172 |

ACCESSORIES 8 / 80

| Name | Description | p/n |
|------------------------------|---|----------|
| PRINTER | External printer, normal paper with RS 232 cable | 50001502 |
| STIRRER | Magnetic stirrer with adjustable speed for 8+ e 80+ Series, complete with electrode holder and connecting cable | 50001132 |
| IQ-OQ MANUAL 8 SERIES | Paper IQ-OQ manual for XS 8 Series | 50001472 |

PC 60 *Violab*

- Resolution 0,1 / 0,01 pH - 0,01 μ S
- Automatic and manual **temperature compensation**
- **Data logger** auto and manual , up to 1000 savings in GLP
- PC/Printer connection
- DHS digital sensors management.



MAIN FEATURES

Professional bench meters with innovative **backlit high definition coloured LCD display**, with possibility of brightness adjustment.

Management of DHS digital sensors.

Possibility to select the parameters to show on the display.

The **step by step guide** in setup and calibration allows a simple and immediate use of the device.

Automatic pH calibration with USA and NIST buffers, up to 3 points and 2 points defined by the user.

Automatic ORP calibration on 1 point.

Automatic conductivity calibration up to 4 points (84; 147; 1413 μ S e 12,88; 111,8 mS) and 1 point custom.

Automatic resolution, reference temperature from 15 to 30 °C, and selectable cell constant (C= 0,1; 1; 10).

Indication of the calibrated points, with icons.

Measurement **stability indication** and possibility to select 3 stability levels.

All operations are constantly monitored and shown to the operator by the **coloured LED** above the display and self-diagnosis messages.

GLP function: Date and time, recall of calibration data and function "Calibration due".

Data logger up to 1000 savings, manual and automatic, PC connection via **micro-USB**.

Data-Link + software available from www.xsinstruments.com.

RS 232 external **printer connection**

Measuring range:

pH: -2,00...16,00 (0,01 pH)

mV: -1000...+1999 mV (0,1 - 1 mV)

Cond: 0,0 μ S ...200 mS (0,01 μ S - automatic)

Salinity: 0,1 ppm ... 100 ppt

TDS: 0,01 mg/l...200,0 g/l

Temperature: -10...110,0 °C (0,1 °C).



Equipped with:

Electrode holder stand, pH and conductivity buffer solutions, USB cable, power supply and user manual.

| Name | Description | p/n |
|---|--|----------|
| PC 60 VIOLAB DHS ELECTRODE | Complete with digital pH electrode XS 201 T DHS and conductivity cell 2301T (C=1), both with integrated temperature sensor | 50103942 |
| PC 60 VIOLAB ANALOGIC ELECTRODE | Complete with pH electrode XS 201 T and conductivity cell 2301T (C=1), both with integrated temperature sensor | 50103952 |
| PC 60 VIOLAB WITHOUT ELECTRODE | With conductivity cell 2301T (C=1), accessories, cable S7-BNC and temperature sensor NT 55 Without pH electrode | 50103972 |

PC 50 *Violab*

- Resolution 0,1 / 0,01 pH - 0,01 μ S
- Automatic and manual **temperature compensation**
- DHS digital sensors management.

MAIN FEATURES

Professional bench meters with innovative **backlit high definition coloured LCD display**, with possibility of brightness adjustment. Possibility to select the parameters to show on the display. The **step by step guide** in setup and calibration allows a simple and immediate use of the device.

Automatic pH calibration with USA and NIST buffers, up to 3 points and 2 points defined by the user.

Automatic ORP calibration on 1 point.

Automatic conductivity calibration up to 4 points (84; 147; 1413 μ S e 12,88; 111,8 mS) and 1 point custom.

Automatic resolution, reference temperature from 15 to 30 °C, and selectable cell constant (C= 0,1; 1; 10).

Indication of the calibrated points, with icons.

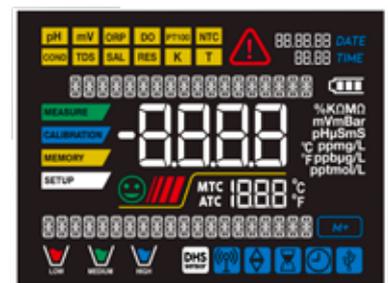
Measurement stability indication and possibility to select 3 stability levels.

All operations are constantly monitored and shown to the operator by the **coloured LED** above the display and self-diagnosis messages.



Measuring range:

- pH: 0,00...14,00 (0,01 pH)
- mV: -1000...+1000 (1 mV)
- Cond: 0,0 μ S ...200 mS (0,01 μ S - automatic)
- TDS: 0,01 mg/l...200,0 g/l
- Temperature: 0...100,0 °C (0,1 °C).



Coloured backlit LCD display

Equipped with:

Electrode holder stand, pH and conductivity buffer solutions, power supply and user manual.

| Name | Description | p/n |
|---|--|----------|
| PC 50 VIOLAB DHS ELECTRODE + CELL | Complete with digital pH electrode XS 201 T DHS and conductivity cell 2301T (C=1), both with integrated temperature sensor | 50103892 |
| PC 50 VIOLAB ELECTRODE + CELL | Complete with pH electrode XS 201 T and conductivity cell 2301T (C=1), both with integrated temperature sensor | 50103902 |
| PC 50 VIOLAB WITHOUT ELECTRODE | With conductivity cell 2301T (C=1), accessories, cable S7-BNC and temperature sensor NT 55 Without pH electrode | 50103912 |

REVIO

- 3 Inputs: pH / ISE - Cond - O₂
- Colour graphic display
- Data logger, manual and automatic, up to 10.000 savings in GLP

WARRANTY
3
YEARS



MAIN FEATURES

Professional portable multiparameter with triple **power supply** (battery, PC, electric network) with **innovative backlit colour display**, suitable to work excellently in any conditions, thanks to the automatic and manual adjustment of contrast and brightness.

Possibility to measure **pH, mV, ORP, ISE, Conductivity, TDS, Salinity, Resistivity, Dissolved Oxygen and Temperature**.

The **step by step** guide in setup and calibration mode allows a simple and intuitive use of the device.

Simultaneous display of multiple parameters defined by the user.

Automatic pH calibration with USA and NIST buffers up to 5 points and 5 points defined by the user.

Automatic ORP calibration in 1 point.

Automatic calibration of conductivity up to 4 point and 1 point defined by the user.

Adjustable reference temperature and selectable cell constant.

Automatic O₂ calibration up to 2 points (0% - 100%).

Indication with icons of the calibrated points.

GLP functions: Date and time, recall of calibration data and setting of calibration deadline.

Manual and automatic data logger with possibility to download data to PC via micro-USB.

Data Link software available to download for free from www.giorgiobormac.com.

Stability indicator of measurement and possibility to select 3 stability levels.

All operations are constantly monitored and reported to the user through the **coloured LED** above the display and the self-diagnosis messages.



Equipped with:

Field support with 3 holes for electrodes, buffer solutions, USB cable, power supply, instructions for use and carrying case



XS Revio connectors

Measuring range

pH: -2,000...20,000 (0,001 pH)

mV: -2000...+2000 (0,1 mV)

ISE: 0.001...19999 ppm

Cond: 0,0 µS ...1000 mS (0,1 µS - automatic)

Resistivity: 1 Ω ...10 MΩ

Salinity: 0,1 ppm ... 100 ppt

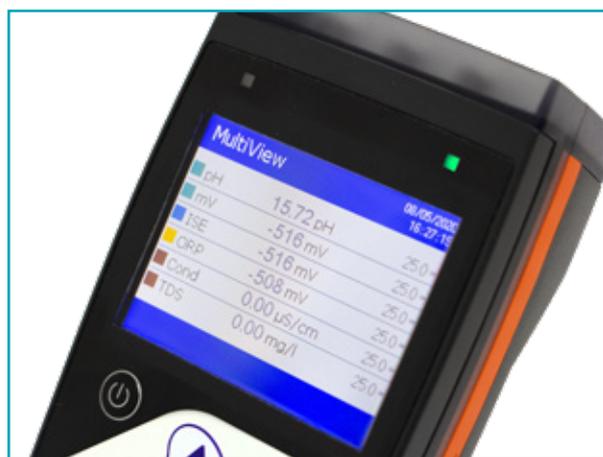
TDS: 0,01 mg/l...500,0 g/l

DO: 0,0...50 mg/l (0,01 / 0,1 mg/l)

Saturation: 0,0...400 % (0,1 / 1 %)

Barometric pressure: 0...1100 mbar (1 mbar)

Temperature: -30...130,0 °C (0,1 °C)



Multiview

| Name | Description | p/n |
|--------------------------------------|---|----------|
| REVIO DHS KIT | Complete with digital pH electrode 201 T DHS, conductivity cell 2301 T and polarographic sensor , with built-in temperature sensor and fixed cable 3m, in carrying case. | 50110952 |
| REVIO KIT IN CARRYING CASE | Complete with pH electrode 201 T, conductivity cell 2301T and polarographic sensor , with built-in temperature sensor and fixed cable 3m, in carrying case. | 50110912 |
| REVIO pH ELECTRODE + OXY | Complete with electrode XS 201 T and polarographic sensor , both with built-in temperature sensor and fixed cable 3m, in carrying case. | 50110922 |
| REVIO COND + OXY | Complete with conductivity cell 2301T and polarographic sensor , both with built-in temperature sensor and fixed cable 3m, cable S7-BNC and NT55 3m, in carrying case. | 50110942 |
| REVIO ONLY INSTRUMENT | Instrument in carrying case with NT55 probe with cable 3m, cable S7-BNC, and accessories | 50110932 |

ACCESSORIES

ELECTRODES AND SPARE PARTS

| Name | Description | p/n |
|--|--|----------|
| 201 T - DHS pH ELECTRODE - 3 m | Digital pH electrode combined with DHS technology with built-in temperature sensor. Gel filling with porous separator. Maintenance-free. Fixed cable 3m. pH 0...14, temperature 0...60 °C. Dimensions (L x Ø) mm 120x12 | 32200153 |
| 201 T - ATC pH ELECTRODE - 3 m | Plastic body pH electrode with temperature sensor for general applications. Gel filling with porous separator Maintenance-free. Fixed cable 3 m. pH 0...14, temperature 0...60 °C. Dimensions (L x Ø) mm 120x12 | 50002072 |
| 2301 T EC CELL - 3 m | Conductivity cell C=1 with built-in temperature sensor, epoxy body, cable 3 m. Working range: 10µS...200 mS | 50004092 |
| D07 / 3mt OXY SENSOR - 3 m | Polarographic sensor , cable 3 m, 2 replacement membranes, refill solution (30ml) | 50010242 |
| REDOX REDOX SENSOR - 3 m | Combined Redox electrode with plastic body for general applications. Fixed cable 3 m with BNC connector. Gel filling with porous separator. Maintenance-free. Working range: ± 1.000 mV, temperature 0...60 °C | 51004132 |
| NT 55 T SENSOR - 3 m | Temperature sensor NTC 30 K, cable 3 m, for liquids and air | 50002082 |
| MEMBRANE | Kit 2 replacement membranes for sensor D07/3MT | 50010252 |
| ELECTROLYTE | Refill solution for sensor D07/3MT (30ml) | 50010262 |
| 0% STANDARD | Zero Oxygen standard - 1 bottle | 50010292 |
| 0% STANDARD | Zero Oxygen standard - 5 bottles pack | 50010272 |

PC 70 Vio

- Resolution 0,1 / 0,01 pH - 0,01 μS
- Automatic and manual **temperature compensation**
- **Data logger** auto and manual , up to 1000 savings in GLP
- GLP function
- DHS digital sensors management.

MAIN FEATURES

Professional portable multiparameter with **innovative high-resolution colour display**, suitable to work in any conditions, thanks to the automatic and manual brightness adjustment.

Possibility to select the parameters you want to show.

The **step by step guide** in setup and calibration mode allows a simple and intuitive use of the device.

Automatic pH calibration with USA and NIST buffers up to 3 points and 2 points custom defined by the user.

Automatic ORP calibration in 1 point.

Automatic calibration of conductivity up to 4 points and 1 point custom defined by the user.

Adjustable reference temperature and selectable cell constant.

Indication with icons of the calibrated points.

Measurement **stability indicator** and possibility of selecting 3 levels of stability.

All operations and errors are constantly monitored and shown to the operator via the **coloured LED** above the display.

GLP function: Date and time, recall of calibration data and function **"Calibration due"**.

Data logger up to 1000 savings, manual and automatic, PC connection via micro-USB.

Data-Link + software available from www.xsinstruments.com.



PC 70 Vio Kit

Measuring range

pH: -2,00...16,00 (0,01 pH)

mV: -1000...+1900 (0,1 mV)

Cond: 0,01 μS ...200 mS (0,01 μS - automatic)

Salinity: 0,1 ppm ... 100 ppt

TDS: 0,01 mg/l ... 200 g/l

Temperature: -10...110,0 °C (0,1 °C)

Equipped with:

Field support with 3 holes for electrodes, coloured buffer solutions of pH and conductivity, USB cable and power supply, instructions for use and plastic carrying case.

| Name | Description | p/n |
|--|--|----------|
| PC 70 VIO DHS ELECTRODE + CELL | With digital pH electrode 201 T DHS and conductivity cell 2301T, both with integrated temperature sensor and cable 1 m | 50110872 |
| PC 70 VIO ELECTRODE + EC CELL | With pH electrode 201 T and conductivity cell 2301T, both with integrated temperature sensor and cable 1 m | 50110812 |
| PC 70 VIO ONLY EC CELL | Without pH electrode. With conductivity cell 2301 T, temperature sensor NT55, S7-BNC cable and accessories | 50110822 |

PC 7 Vio

- Resolution 0,1 / 0,01 pH - 0,01 μS
- Automatic and manual **temperature compensation**
- DHS digital sensors management.

MAIN FEATURES

Professional portable multiparameter with **innovative high-resolution color display**, suitable to work in any conditions, thanks also to the possibility to adjust automatically and manually contrast and brightness of the display.

Possibility to select the parameters you want to show.

The **step by step guide** in setup and calibration mode allows a simple and intuitive use of the device.

Automatic pH calibration with USA and NIST buffers up to 3 points and 2 points custom defined by the user.

Automatic ORP calibration in 1 point.

Automatic calibration of conductivity up to 4 points and 1 point custom defined by the user.

Adjustable reference temperature and selectable cell constant.

Indication with icons of the calibrated points.

Measurement **stability indicator** and possibility of selecting 3 levels of stability.

All operations and errors are constantly monitored and shown to the operator via the **coloured LED** above the display.



PC

Measuring range:

pH: 0,00...14,00 (0,01 pH)

mV: -1000...+1000 (0,1 mV)

Cond: 0,01 μS ...200 mS (0,01 μS - automatic)

TDS: 0,01 mg/l ... 200 g/l

Temperature: 0...100,0 °C (0,1 °C)

Equipped with:

Field support with 3 holes for electrodes, coloured buffer solutions of pH and conductivity, instructions manual and plastic carrying case.



Connectors protected by the semitransparent case

| Name | Description | p/n |
|---|--|----------|
| PC 7 VIO DHS ELECTRODE + CELL | With digital pH electrode 201 T DHS and conductivity cell 2301T, both with integrated temperature sensor and cable 1 m | 50110752 |
| PC 7 VIO ELECTRODE + EC CELL | With pH electrode 201 T and conductivity cell 2301T, both with integrated temperature sensor and cable 1 m | 50110712 |
| PC 7 VIO ONLY EC CELL | Without pH electrode. With conductivity cell 2301 T, temperature sensor NT55 , S7-BNC cable and accessories | 50110722 |

PC ACCESSORIES

pH ELECTRODES

| Name | Description | p/n |
|---|--|----------|
| XS STANDARD DHS DIGITAL pH ELECTRODE | Digital pH electrode combined with DHS technology. Glass body and cylindrical membrane for general applications. Refillable KCl 3M electrolyte. Excellent chemical resistance and easy to clean. Included with serial number and certificate. Dimensions (LxØ) mm 120x12 - pH 0...14 - Temperature -10...100 °C | 32200123 |
| XS STANDARD PH ELECTRODE | pH Electrode combined with S7 head. Glass body, for general use. Refillable KCl 3M Electrolyte. Excellent chemical resistance and easy to clean. With serial number and certificate. Dimensions (LxØ) mm 120x12 - pH 0...14 - Temperature -10...100 °C. | 32200363 |
| XS POLYMER S7 | Combined pH Electrode S7 head. Glass Body for general use. Cylindrical membrane. Polymer filling, open pore. For a fast response with high accuracy in samples that might contaminate normal diaphragms. Maintenance-free. Dimensions (LxØ) mm 120x12 - pH 0...14 - Temperature -10...80 °C | 32200223 |
| 201 T DHS DIGITAL pH ELECTRODE | Digital pH electrode combined with DHS technology. Plastic body for general use. Gel Filling, ceramic diaphragm. Maintenance-free. Dimensions (LxØ) mm 120x12. pH 0...14 - Temperature 0...60 °C | 32200103 |
| 201 T PH ELECTRODE | Combined pH electrode with NTC temperature sensor integrated. Epoxy body for general applications. Polymer filling with ceramic diaphragm. Maintenance-free. Fixed cable 1 mt., BNC + RCA plug. Dimensions (LxØ) mm 120x12 - pH 0...14 - Temperature 0...60 °C | 50002002 |
| 201 T / 5 PH ELECTRODE | Combined pH electrode with NTC temperature sensor integrated. Epoxy body for general applications. Polymer filling with ceramic diaphragm. Maintenance-free. Fixed cable 5 mt., BNC + RCA plug. Dimensions (LxØ) mm 120x12 - pH 0...14 - Temperature 0...60 °C | 50002022 |

CONDUCTIVITY CELLS

| Name | Description | p/n |
|------------------------------|--|----------|
| VP 1 EC CELL | Cell in glass body with platinum plates C=1, fixed cable 1 mt. with BNC plug. Measuring range: 10µS...10 mS - Temperature 0...80 °C | 50004062 |
| VPT 1 EC CELL | Cell in glass body with platinum plates C=1, with temperature sensor integrated. Fixed cable 1 mt., BNC + RCA Cinch plug. Measuring range: 10µS...100 mS - Temperature 0...80 °C | 50003352 |
| VPT 01 EC CELL | Steel and PVC cell, C=0,1, with temperature sensor integrated. Fixed cable 1 mt., BNC + RCA plug. Measuring range: 0,1µS...1 mS - Temperature 0...60 °C | 50004012 |
| VPT 10 EC CELL | Cell in glass body with platinum plates C=10, temperature sensor integrated, fixed cable 1 mt. BNC + RCA Cinch plug. Measuring range: 100µS...200 mS.. | 50004072 |
| VPT 10 H EC CELL | Cell in glass body with platinum plates C=10, temperature sensor integrated, fixed cable 1 mt. BNC + RCA Cinch plug. Measuring range: 100µS...500 mS. Only for XS COND 80+ | 50003372 |
| 2301 T EC CELL | Cell in epoxy body C=1, with temperature sensor integrated. Fixed cable 1 mt. BNC+RCA cinch plug. Measuring range: 10µS...200 mS - Temperature 0...60 °C | 50004002 |
| 2301 T / 5 EC CELL | Cell in epoxy body C=1, with temperature sensor integrated. Fixed cable 5 mt. BNC+RCA cinch plug. Measuring range: 10µS...200 mS - Temperature 0...60 °C | 50004022 |

TEMPERATURE SENSORS

| Name | Description | p/n |
|------------------------------------|--|----------|
| NT 55 TEMPERATURE SENSOR | Temperature sensor NTC 30K for liquids and air | 50002012 |
| NT 7P TEMPERATURE SENSOR | Temperature sensor NTC 30K at penetration temp. sensor, diameter 4 mm, fixed cable 1 m | 50011122 |

REDOX SENSORS

| Name | Description | p/n |
|----------------------------|--|----------|
| REDOX SENSOR | Electrode in epoxy body.Gel filling, double junction, maintenance-free. Ceramic diaphragm. Cable S7-BNC, 1 m. Dimensions (LxØ) mm 120X12 Measuring range: ± 1.000 mV, temperature 0...60 °C | 32105302 |
| REDOX / 5 SENSOR | Electrode in epoxy body.Gel filling, double junction, maintenance-free. Ceramic diaphragm. Cable S7-BNC, 5 m. Dimensions (LxØ) mm 120X12 Measuring range: ± 1.000 mV, temperature 0...60 °C | 32105102 |

CONNECTION CABLE

Connecting cable with **S7 head** and BNC plug for XS pH-meter.
Diameter 3 mm, lenght 1 m.

| Name | Description | p/n |
|------------|--|----------|
| BNC | Cable S7-BNC  | 33551733 |

CALIBRATION KIT - SACHETS BUFFER SOLUTIONS

| Name | Description | p/n |
|-------------------------|---|----------|
| SET CAL pH BIS | It contains 10 x pH 4.01 and 10 x pH 7.00, 25 ml | 51102203 |
| SET CAL pH TRIS | It contains 7 x pH 4.01, 7 x pH 7.00, 6 x pH 10.01, 25 ml | 51102213 |
| SET CAL COND | It contains 10 x EC 1.413 µS and 10 x EC 12.880 µS , 25 ml | 51102223 |
| SET CAL PC | It contains 7 x pH 4.01 and 7.00, 6 x EC 1.413 µS , 25 ml | 51102233 |
| REPLACEMENT pH | It contains 6 x pH 4.01, pH 7.00, H2O, and 2 x Storage , 25 ml | 51102243 |
| REPLACEMENT COND | It contains 7 x EC 1.413 µS, EC 12.880 µS and 6 x deionized H2O, 25 ml | 51102253 |
| REPLACEMENT PC | It contains 5 x pH 4.01, pH 7.00 and 1.413 µS, 3 x H2O, 25 ml and 2 x Storage 10 ml | 51102263 |
| STORAGE | Storage solutions for electrodes 55 ml | 32208043 |
| STORAGE | Storage solutions for electrodes 500 ml | 32208053 |

ACCESSORIES

| Name | Description | p/n |
|----------------------------------|---|----------|
| ST 10 MAGNETIC STIRRER | Magnetic stirrer, adjustable speed, with rechargeable batteries, magnetic bar and power supply. | 50000132 |
| HOLDER MOD: 3900 | Flexible electrode holder | 50000112 |
| PRINTER | External printer with normal paper for 60 / 8 / 80 Series, power supply and RS 232 cable | 50001502 |

Oxy 70 Vio

- High accuracy with **low oxygen level**
- High resolution backlit *coloured LCD Display*
- **Automatic compensation** of temperature and pressure.
- **Data logger auto and manual, up to 1000 savings** in GLP
- **GLP with date and time of the last calibration.**
- **Auto calibration DO 0%-100%**
- **Optical sensor maintenance free.**

MAIN FEATURES

Professional **portable oxymeter with innovative backlit high-resolution colour display** for excellent data view in all conditions thanks to the possibility of automatically and manually adjusting the contrast and lighting of the display.

The guide onboard in setup and calibration mode allows a simple and intuitive use of the device.

Automatic calibration up to two points (0% - 100%).

Automatic compensation of temperature and barometric pressure, manual salinity.

Measurement stability indicator and possibility to select 3 stability levels.

All operations are constantly monitored and reported to the operator via the coloured LED above the display and the self-diagnosis messages.

GLP function: Date and time, recall of calibration data and function "Calibration due".

Data logger up to 1000 savings, manual and automatic, PC connection via micro-USB.

Data-Link + software available from www.xsinstruments.com.

Measuring range:

DO: 0,0...50 mg/l (0,01 / 0,1 mg/l)

Saturation: 0,0...400 % (0,1 / 1 %)

Barometric pressure: 0...1100 mbar

Temperature: -10...+110,0 °C

Equipped with:

0 Oxygen standard, , USB cable and power supply, user manual and plastic carrying case.



Optical sensor

| Name | Description | p/n |
|-------------------------------|---|----------|
| OXY 70 VIO 2 mt | Complete with optical sensor OXY LD070, with temperature sensor integrated. Cable lenght: 2 m | 50110302 |
| OXY 70 VIO 10 mt | Complete with optical sensor OXY LD070, with temperature sensor integrated. Cable lenght: 10 m | 50110312 |
| LD070 / 2mt SENSOR | Optical sensor for OXY 70 Vio, with temperature sensor integrated. Cable 2 mt. | 50010342 |
| LD070 / 10mt SENSOR | Optical sensor for OXY 70 Vio, with temperature sensor integrated. Cable 10 mt | 50010352 |
| MEMBRANE | Replacement membrane for LD070 | 50010362 |
| ARMOR STEEL | Steel armor for LD070 / 10 mt | 50010372 |

Oxy 7 Vio

- High resolution backlit *coloured* LCD Display
- Automatic compensation of temperature and pressure.
- Auto calibration DO 0%-100%
- Automatic resolution of the measure
- Polarographic sensor
- Polarization timer

MAIN FEATURES

Professional portable oxymeter with **innovative backlit high-resolution colour display** for excellent data view in all conditions thanks to the possibility of automatically and manually adjusting the contrast and lighting of the display.

The **step by step guide** in setup and calibration mode allows a simple and intuitive use of the device.

Automatic calibration up to two points(0% - 100%).

Automatic compensation of temperature and barometric pressure, manual salinity. Measurement **stability indicator** and possibility to select 3 stability levels.

All operations are constantly monitored and reported to the operator via the **coloured LED** above the display and the self-diagnosis messages.

Measuring range:

DO: 0,0...50 mg/l (0,01 / 0,1 mg/l)

Saturation: 0,0...400 % (0,1 / 1 %)

Barometric pressure : 0...1100 mbar (1 mbar)

Temperature: 0...+100,0 °C

Equipped with:

0 Oxygen standard, replacement membrane, user manual and plastic carrying case.



Polarographic sensor

| Name | Description | p/n |
|---------------------------|--|----------|
| OXY 7 VIO COMPLETE | Complete with polarographic sensor D07/3MT with temperature sensor integrated, cable lenght 3 m, 1 replacement membranes, refill solution (30ml), 0 Oxygen standard, user manual and carrying case | 50110202 |
| OXY 7 VIO ECO | Only instrument without oxygen sensor, in Ecopack with user manual. | 50110212 |
| D07 / 3mt SENSOR | Polarographic sensor, with temperature sensor incorporated. Cable 3m, 2 replacements membranes, refill solution (30ml) | 50010242 |
| MEMBRANE | Kit 2 replacement membranes for D07/3MT | 50010252 |
| ELECTROLYTE | Refill solution for D07/3MT (30 ml) | 50010262 |
| ARMOR PPE | PPE armor for D07/3MT | 50010282 |
| 0% STANDARD | 0 Oxygen standard - 1 bottle | 50010292 |
| 0% STANDARD | 0 Oxygen standard - 5 bottles pack | 50010272 |

ACCESSORIES

| Name | Description | | p/n |
|---------------------|--|--|----------|
| IP67 CASE | Waterproof carrying case IP 67 for portable pH-meters Vio |  | 50010972 |
| SOFT CASE | Soft case with adjustable shoulder strap in eco-friendly material for portable pH-meters Vio |  | 50010962 |
| POWER SUPPLY | Power supply and cable for XS Vio 70 |  | 50110172 |

DATA LINK +

On the software are shown all the informations about the instruments and calibrations, like slope and offset. It is possible to view all saved data in graphic form, to see the trend, or in table form. It is also possible to export datas in Excel and in PDF. On the top right corner the real time view allows to check measurement directly on the PC. Multilanguage: English - Italian - French - German - Spanish - Czech. And then there are a lot of functions for the remote control of the instruments, like data saving and memory reset.



Software **Data Link +** available for free on our website www.xsinstruments.com.



Brochures **XS Vio** and **XS VioLab** are available on our website www.xsinstruments.com

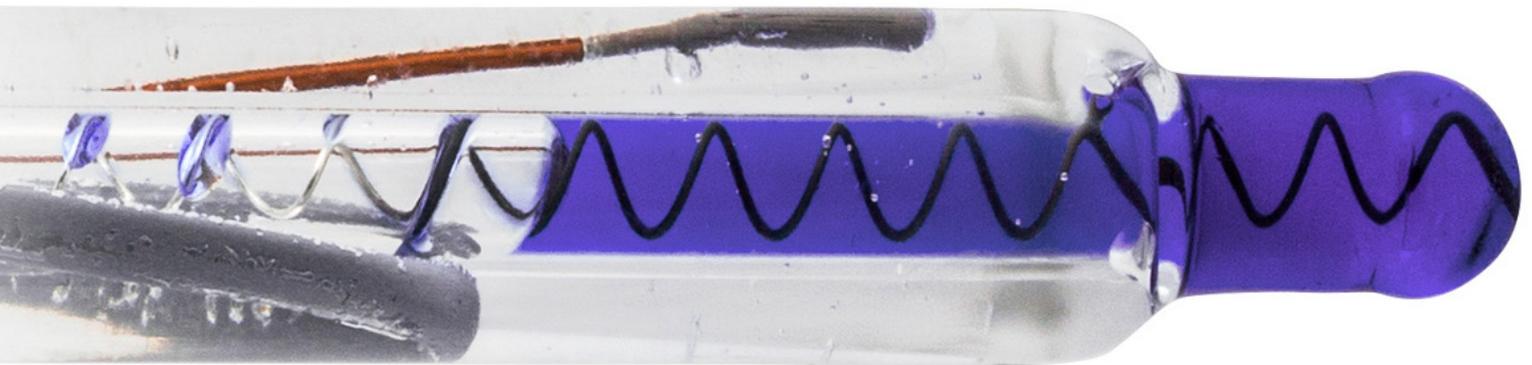
ELECTRODES



DHS
Digital High Sensor



WARRANTY
6
MONTHS



20 YEARS

To celebrate XS anniversary, the inner buffer changes color.
From blue to violet, our company color.
Each electrode bears the signature of Giorgio Bormac.

QUALITY REPORT

The Standard and Flow models of the XS Sensor range are supplied with the individual quality certificate, with reference to the electrode serial number, shown on the internal label for traceability, according to GLP standards, of calibration and pH measurements.

|  QUALITY TEST REPORT | | |
|--|---|--------------------|
| Model | Electrode Type: <i>Elektrodentyp / Elettrodo</i> | STANDARD |
| | Product number: <i>Produktnummer / Codice prodotto</i> | 32200373 |
| | Serial number: <i>Seiennummer / Numero seriale</i> | 0009 |
| Batch | Batch number: <i>Chargennummer / Numero di lotto</i> | 444 |
| Test results | Reading in pH 7 buffer ($0 \pm 20\text{mV}$): <i>Lesen im pH 7 / Lettura in pH 7*</i> | -5 mV |
| | Reading in pH 4 buffer ($174 \pm 20\text{mV}$): <i>Lesen im pH 4* / Lettura in pH 4*</i> | 169 mV |
| Technical features | Measuring range: <i>Messbereich / Range di misura</i> | 0...14 pH |
| | Temperature range: <i>Temperaturbereich / Range di temperatura</i> | -10...80 °C |
| | Temperature sensor: <i>Temperatursensor / Sensore di temperatura</i> | |
| | Reference electrolyte: <i>Bezugselektrolyt / Elettrolita di riferimento</i> | KCl 3M |
| | <small>* Measurements are performed in Certified Reference Materials. * Die Messungen werden in zertifizierten Referenzmaterialien durchgeführt. * Le misurazioni sono eseguite in materiali di riferimento certificati.</small> | |
| | <small>A change of the measurement values above during storage and use is a normal behavior of the electrochemical sensors. Eine Änderung der Meßwerte oberhalb während der Lagerung und der Verwendung ist ein normales Verhalten der elektrochemischen Sensoren. Una variazione dei valori di misura di cui sopra, durante la conservazione e l'uso, è un comportamento normale dei sensori elettrochimici.</small> | |
| Date | Passed Quality Control <i>Bestanden Qualitätskontrolle / Controllo Qualità Effettuato</i> | 16/02/2018 |
| | <small>This document is generated electronically and doesn't require any signature. Dieses Dokument ist elektronisch erzeugt und erfordert keine Unterschrift erforderlich. Questo documento è generato elettronicamente e non richiede alcuna firma.</small> | |

HOW TO CHOOSE THE RIGHT ELECTRODE

ELECTRODES

| | GEL | POLYMER | POLYMER TIP | STANDARD | 201T / POLYMER PLAST | STANDARD HA | FLAT | STANDARD HF | FOOD | 2 PORE SLIM | 2 PORE | 2 PORE F | FOOD SLIM | SEMIMICRO | MICRO | MICRO P | MICRO SPECIAL | FLOW |
|---------------------------------|-----|---------|-------------|----------|----------------------|-------------|------|-------------|------|-------------|--------|----------|-----------|-----------|-------|---------|---------------|------|
| Waste water | | ● | ● | | ● | ● | | | | | | | | | | | | ● |
| Deionized water | | | | | | | | | ● | | | | | | | | | ● |
| Tap water | ● | ● | ● | ● | ● | | | | ● | | | | | | | | | ● |
| Food | | | | | | | | | ● | ● | ● | ● | ● | | | | | |
| Butter | | | | | | | | | ● | ● | ● | ● | ● | | | | | |
| Samples with protein | | ● | ● | | | | | | ● | | ● | | ● | | | ● | | |
| Alkali samples | | | | | | ● | | | | | | | | | | | | |
| High temperature samples | | | | ● | | ● | | | ● | | | | | | | | | |
| Samples in tube for NMR | | | | | | | | | | | | | | | | | ● | |
| small volume samples | | | | | | | ● | | | | | | | | ● | ● | ● | |
| Samples with Hydrofluoric acid | | | | | | | | ● | | | | | | | | | | |
| Viscous samples | | ● | ● | | | | | | ● | | | | | | | | | ● |
| Cosmetics | | ● | ● | ● | | ● | | | ● | | | | | | | | | ● |
| Cream | | ● | ● | | | | | | ● | | | | | | | | | ● |
| Detergents | ● | ● | ● | ● | ● | ● | | | ● | | | | | | | | | ● |
| Aqueous emulsions | | ● | ● | ● | | | | | ● | | | | | | | | | ● |
| Cheese | | | | | | | | | | ● | ● | ● | ● | | | | | |
| Fruit and vegetables | | | | | | | | | | ● | ● | ● | ● | | | | | |
| Milk | | ● | ● | | | | | | ● | ● | ● | ● | ● | | | | | |
| Mayonnaise | | | | | | | | | ● | | ● | | | | | | | ● |
| Marmalade | | ● | ● | | | | | | ● | | ● | | | | | | | ● |
| Bread and pasta | | | ● | | | | | | ● | ● | ● | ● | ● | | | | | |
| Leather | | | | | | | ● | | | | | | | | | | | |
| Brine | ● | ● | ● | ● | ● | | | | ● | | | | | | | | | ● |
| Soap | | ● | ● | ● | | | | | ● | | | | | | | | | ● |
| Samples with low ionic strenght | | | | | | | | | | | | | | | | | | ● |
| Aqueous suspensions | | ● | ● | ● | | | | | ● | | | | | | | | | ● |
| Semi Aqueous suspensions | | | | | | | | | ● | | | | | | | | | ● |
| Fruit juice | | ● | ● | ● | | | | | ● | | | | | | | | | ● |
| Surfaces | | | | | | | ● | | | | | | | | | | | |
| TRIS swab | | | | ● | | | | | | | | | | | | | | ● |
| Tip | | | ● | | | | | | | ● | ● | ● | ● | | | | | ● |
| Titolation | | | | ● | | | | | ● | | | | | | | | | ● |
| Non Aqueous titolation | | | | | | | | | | | | | | | | | | ● |
| Galvanic treatment | | ● | ● | | | ● | | | | | | | | | | | | ● |
| Water-based paints | | ● | ● | ● | | | | | ● | | | | | | | | | ● |
| Paints | | | | ● | | | | | ● | | | | | | | | | ● |
| Wine | | ● | ● | ● | | | | | ● | | | | | | | | | ● |
| Yogurt | | ● | ● | | | | | | ● | ● | ● | ● | ● | | | | | ● |

DHS Electrodes

Digital High Sensor



Intelligent Sensor management

Digital High Sensors are the new pH sensors with internal chip, that store parameters, date of last calibration, model and production batch of the electrode. After connecting the pH DHS sensor to the instrument, with the same technology, all the data stored in the sensor chip are automatically transferred to the instrument and shown on the display.

After a new calibration of the DHS electrode, the data are automatically stored in the electrode chip. If we move this electrode to another DHS-enabled instrument, we can start working immediately and with extreme security as the data from the last calibration will automatically be transferred and used for pH measurements.

Our DHS electrodes have integrated temperature sensor, fixed cable with BNC and RCA connectors and work without an internal battery, this allow to store them as normal pH electrode and can be connected to any instrument with BNC and RCA connection.



| Name | Description | p/n |
|---|---|----------|
| 201 T DHS DIGITAL pH ELECTRODE | Digital pH electrode combined with DHS technology. Plastic body for general use. Gel Filling, ceramic diaphragm. Maintenance-free. Dimensions (LxØ) mm 120x12. pH 0...14 - Temperature 0...60 °C | 32200103 |



| Name | Description | p/n |
|--|--|----------|
| STANDARD DHS DIGITAL pH ELECTRODE | Digital pH electrode combined with DHS technology. Glass body and cylindrical membrane for general applications. Refillable KCl 3M electrolyte. Excellent chemical resistance and easy to clean. Included with serial number and certificate. Dimensions (LxØ) mm 120x12 - pH 0...14 Temperature -10...100 °C | 32200123 |



| Name | Description | p/n |
|--|---|----------|
| FLOW DHS DIGITAL pH ELECTRODE | Digital pH electrode combined with DHS technology. Glass body. Refillable KCl 3M electrolyte. With Teflon sleeve diaphragm for measurements in suspensions and samples with low conductivity. With serial number and certificate. Dimensions (LxØ) mm 120x12. pH 0...14 Temperature -10...+80 °C | 32200133 |



| Name | Description | p/n |
|--|---|----------|
| 2 PORE DHS DIGITAL pH ELECTRODE | Digital pH electrode combined with DHS technology. Glass Body. Filled with polymer, maintenance-free. Ideal for meats and cheese samples. Dimensions tip (LxØ) mm 35x6 - pH 0...14, Temperature 0...60 °C | 32200113 |



| Name | Description | p/n |
|--|--|----------|
| 2 PORE F DHS DIGITAL pH ELECTRODE | Digital pH electrode combined with DHS technology. Plastic body (PEEK) and glass membrane. Polymer filling, maintenance-free. Ideal for meat and cheese samples. Dimensions tip (LxØ) mm 35x6 - pH 0...14, Temperature 0...60 °C | 32200143 |

Laboratory electrodes

A very famous Swiss manufacturer developed a complete line of laboratory pH, ORP and conductivity electrodes with glass and plastic body. XS Sensors are available with S7 head or fixed cable with BNC or DIN connector plug. For food application many models are equipped with temperature sensor included for a fast temperature compensation. Some models have internal serial number and quality certificate to work in accordance with GLP rules



| Name | Description | | p/n |
|--------------------------------|--|---|----------|
| STANDARD S7 | pH Electrode combined with S7 head. Glass body, for general use. Refillable KCl 3M Electrolyte. Excellent chemical resistance and easy to clean. With serial number and certificate. Dimensions (LxØ mm) 120x 12 - pH 0...14 Temperature -10...100 °C. | | 32200363 |
| STANDARD BNC | With fixed cable 1 mt - BNC connector |  | 32200263 |
| STANDARD DIN | With fixed cable 1 mt - DIN connector |  | 32200273 |
| STANDARD T BNC + RCA | With temperature sensor NTC 30 KΩ, fixed cable BNC+RCA Cinch |  | 32200473 |
| STANDARD T DIN + BANANA | With temperature sensor NTC 30 KΩ, fixed cable DIN+banana 4 mm |  | 32200463 |



| Name | Description | | p/n |
|-----------------------|---|--|----------|
| STANDARD HA S7 | pH electrode combined for minimal alkali error , S7 head. Glass body and cylindrical membrane. Refillable KCl 3M electrolyte. Excellent chemical resistance and easy to clean. With serial number and certificate. Dimensions (LxØ mm) 120x 12 - pH 0...14 Temperature -10...100 °C. | | 32200423 |



| Name | Description | | p/n |
|-----------------------|---|--|----------|
| STANDARD HF S7 | Combined pH electrode, S7 head. Glass body. With special membrane for measurements in samples containing hydrofluoric acid (0.01 M / 200 mg at 20 °C). Refillable KCl 3M electrolyte. Excellent chemical resistance and easy to clean. Dimensions (LxØ mm) 120x 12 - pH 0...14 Temperature -10...100 °C. | | 32200433 |



| Name | Description | p/n |
|------------------|--|----------|
| GEL S7 | Combined pH electrode, S7 head. Body in glass for general applications. Cylindrical membrane. Gel Filling, maintenance-free. Dimensions (LxØ) mm 120x12 - pH 0...14 Temperature -10...60 °C | 32200203 |



| Name | Description | p/n |
|----------------------|---|----------|
| POLYMER S7 | Combined pH Electrode S7 head. Glass Body for general use. Cylindrical membrane. Polymer filling, open pore. For a fast response with high accuracy in samples that might contaminate normal diaphragms. Maintenance-free. Dimensions (LxØ) mm 120x12 - pH 0...14 - Temperature -10...80 °C | 32200223 |



| Name | Description | p/n |
|--------------------------|--|----------|
| POLYMER TIP S7 | Combined pH electrode with tipped membrane for pH in the soil. S7 head. Glass body. Polymer filling, two open pores. For a fast response with high accuracy in samples may contaminate normal diaphragms. Maintenance-free. Dimensions (LxØ) mm 120x12 - pH 0...14 - Temperature -10...80 °C | 32200443 |



| Name | Description | p/n |
|-------------------|--|----------|
| FLOW S7 | Combined pH electrode, S7 screw head. Glass body. Refillable KCl 3M electrolyte. With Teflon sleeve diaphragm for measurements in viscous samples with low conductivity. With serial number and certificate. Dimensions (LxØ) mm 120x12 - pH 0...14 - Temperature -10...80 °C | 32200373 |

| | | | |
|----------------------|---|--|----------|
| FLOW T BNC | With temperature sensor integrated NTC 30 KΩ fixed cable 1 mt lenght BNC+RCA Cinch |  | 32200723 |
|----------------------|---|--|----------|

| | | | |
|----------------------|---|--|----------|
| FLOW T DIN | With temperature sensor integrated PT 1000 fixed cable 1 mt lenght DIN+banana 4 mm |  | 32200733 |
|----------------------|---|--|----------|

ELECTRODES



| Name | Description | p/n |
|-------------------|---|----------|
| FLAT S7 | Combined pH electrode, S7 head. Glass Body. Polymer filling. With flat membrane for surface measurements. Dimensions (LxØ) mm 120x12 - pH 0...14 - Temperature 0...60 °C | 32200413 |



| Name | Description | p/n |
|-------------------------|---|----------|
| SEMI MICRO S7 | Combined pH electrode, S7 head. Glass body "micro 6". Refillable KCl 3M electrolyte. Suitable for measurements in test tubes. Dimensions tip (LxØ) mm 100 x 6 - pH 0...14 - Temperature 0...100 °C | 32200383 |



| Name | Description | p/n |
|--------------------|---|----------|
| MICRO S7 | Combined pH electrode, S7 head. Glass body "micro 3". Refillable KCl 3M electrolyte. For small volume of samples <2 ml. Dimensions tip (LxØ) mm 60 x 3 - pH 0...14 - Temperature 0...100 °C | 32200213 |



| Name | Description | p/n |
|----------------------|---|----------|
| MICRO P S7 | Combined pH electrode, S7 head. Glass body "micro 3". Refillable Glycerin KCl electrolyte. Suitable for small volumes in microbiological and biochemical applications. Dimensions tip (LxØ) mm 60 x 3 - pH 0...14 - Temperature 0...100 °C | 32200253 |



| Name | Description | p/n |
|----------------------------|---|----------|
| MICRO SPECIAL S7 | Combined pH electrode, S7 head, Glass body "micro 3". Refillable KCl 3M electrolyte. For small volume of samples <2 ml. Ideal for NMR tubes. Dimensions tip (LxØ) mm 180x3 - pH 0...14 - Temperature 0...100 °C | 32200453 |

ELECTRODES

Electrodes for food applications



| Name | Description | p/n |
|-------------------|--|----------|
| FOOD S7 | Combined pH electrode with 3 diaphragm, S7 head. Glass body. Refillable Glycerin KCl electrolyte. For dairy and food applications. Dimensions (LxØ) mm 120x12 - pH 0...14 - Temperature -10...100 °C | 32200393 |



| Name | Description | p/n |
|------------------------|---|----------|
| FOOD SLIM S7 | Combined pH electrode, S7 head. Glass body. Refillable Glycerin KCl for sample containing proteins. 6 mm tip for penetration measurement. Dimensions tip (LxØ) mm 25x6 - pH 0...14 - Temperature -10...100 °C | 32200243 |



| Name | Description | p/n |
|------------------------|--|----------|
| ZAVATRODE S7 | Combined pH electrode, S7 head. Glass body. Refillable Glycerin KCl for sample containing proteins. 4 mm tip for penetration measurements. Dimensions tip (LxØ) mm 120x4 - pH 0...14 - Temperature 0...60 °C | 32200403 |



| Name | Description | p/n |
|---------------------|--|----------|
| 2 PORE S7 | Combined pH electrode, S7 head. Glass body. Polymer filling, two open pores, maintenance free. Ideal for meat and cheese application. Dimensions tip (LxØ) mm 35x6 - pH 0...14 - Temperature 0...60 °C | 32200333 |

2 PORE T
BNC + RCA

With temperature sensor integrated NTC 30 KΩ, fixed cable 1 mt length, BNC+RCA Cinch



32200323



| Name | Description | p/n |
|--------------------------|--|----------|
| 2 PORE SLIM S7 | Combined pH electrode, S7 head. Glass body. Polymer filling. Two open pores, maintenance-free. Ideal for meat and cheese application. Dimensions tip (LxØ) mm 35x4,5 - pH 0...14 - Temperature 0...60 °C | 32200283 |



| Name | Description | | p/n |
|--------------------------------|--|--|----------|
| 2 PORE F S7 | Combined pH electrode, S7 head. Plastic body (PEEK) and glass tip. Polymer filling, two open pores, maintenance-free. Ideal for meat and cheese application. Dimensions tip (LxØ) mm 35x6 - pH 0...14 - Temperature 0...60 °C | | 32200293 |
| 2 PORE F T BNC + RCA | With temperature sensor integrated NTC 30 KΩ fixed cable 1 mt., BNC+RCA. | | 32200703 |
| 2 PORE F T DIN + BANANA | With temperature sensor PT1000, fixed cable 1 mt., plug DIN+banana 4 mm | | 32200713 |



| Name | Description | | p/n |
|------------------------------------|--|--|----------|
| 2 PORE STEEL S7 | Combined pH electrode, steel body. Polymer filled, maintenance-free. Ideal for meat and cheese application or penetration measurement. Dimensions tip (LxØ) mm 50x6 - pH 0...14 - Temperature 0...80 °C | | 32200653 |
| 2 PORE STEEL T BNC + RCA | With temperature sensor integrated NTC 30 KΩ, fixed cable 1 mt., BNC + RCA cinch plug. Dimensions tip (LxØ) mm 50x6 - pH 0...14 - Temperature 0...80 °C | | 32200313 |
| 2 PORE STEEL T DIN + BANANA | With temperature sensor NTC 30 KΩ, fixed cable 1 mt., plug DIN + Banana 4mm. | | 32200643 |



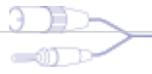
| Name | Description | | p/n |
|-------------------------------|---|--|----------|
| 2 PORE K S7 | Combined pH electrode, S7 head. Steel body with replaceable blade. Polymer filling, two open pores, maintenance-free. Ideal for meat and cheese application or penetration measurement. Dimensions tip (LxØ) mm 35x6 - pH 0...14 - Temperature 0...60 °C | | 32200303 |
| 2 PORE K WITHOUT BLADE | Only electrode, without knife. | | 32200343 |
| BLADE | Replaceable knife for 2 Pore K | | 32200353 |

Plastic electrodes for general use



| Name | Description | | p/n |
|--------------------------|---|---|----------|
| POLYMER PLAST S7 | Combined pH electrode, S7 head, with epoxy body. Good chemical resistant. Polymer filling, one open pore and one ceramic diaphragm, for a fast response in samples that contain substances that might contaminate the diaphragm. Maintenance-free. Dimensions (LxØ) mm 120x12 - pH 0...14 - Temperature 0...60 °C | | 32200493 |
| POLYMER PLAST BNC | With fixed cable 1 mt., BNC plug |  | 32200503 |
| POLYMER PLAST DIN | With fixed cable 1 mt., DIN plug |  | 32200513 |



| Name | Description | | p/n |
|------------------|--|---|----------|
| 201 T BNC | Combined pH electrode with NTC temperature sensor integrated. Epoxy body for general applications. Polymer filling with ceramic diaphragm. Maintenance-free. Fixed cable 1 mt., BNC + RCA plug. Dimensions (LxØ) mm 120x12 - pH 0...14 - Temperature 0...60 °C |  | 50002002 |
| 201 T DIN | With temperature sensor integrated NTC 30 KΩ, fixed cable 1 mt., DIN+ 1 Banana 4mm plug |  | 50002052 |

Cleaning and maintenance solutions

| Name | Volume | p/n |
|---|--------|----------|
| KCL 3M + AgCl Solution | 55 ml | 32208113 |
| 1M LiCl IN ALCOOL ETILICO Solution | 100 ml | 12005033 |
| 3M KCL Solution | 55 ml | 32208003 |
| 3M KCL Solution | 500 ml | 32208013 |
| GLYCERIN-KCl Solution | 55 ml | 32208023 |
| KN03 1M FOR ELECTRODE XS STANDARD Ag Solution | 55 ml | 32208033 |
| ELECTRODES STORAGE Solution | 55 ml | 32208043 |
| ELECTRODES STORAGE Solution | 500 ml | 32208053 |
| PROTEIN CLEANING SOLUTION (PEPSINA) FOR FOOD INDUSTRY ELECTRODES | 55 ml | 32208063 |
| PROTEIN CLEANING SOLUTION (PEPSINA) FOR FOOD INDUSTRY ELECTRODES | 250 ml | 32208093 |
| DIAPHRAGM CLEANING (THIOUREA) Solution | 55 ml | 32208073 |
| DIAPHRAGM CLEANING (THIOUREA) Solution | 250 ml | 32208103 |
| REGENERATION SOLUTION (WITH HF) FOR pH ELECTRODES | 55 ml | 32208083 |

ORP Electrodes



| Name | Description | p/n |
|------------------------|--|----------|
| STANDARD ORP S7 | Combined pH electrode, S7 head. Glass body. Refillable KCL 3M Electrolyte. Platinum ring for ORP measurement. Dimensions(LxØ)mm 120x12 - Temperature -10...100 °C | 32200233 |



| Name | Description | p/n |
|-----------------------|--|----------|
| STANDARD Ag S7 | Combined electrode, S7 head. Glass body. Refillable KNO3 1M Electrolyte. Silver pin for argentometric titrations. Dimensions(LxØ)mm 120X12- Temperature 0...80 °C | 32200483 |



| Name | Description | p/n |
|-----------------------|---|----------|
| STANDARD KF S7 | Glass Body, S7 head. Maintenance-free. Double platinum pin for KF and SO2 titrations. Dimensions(LxØ)mm 120X12 - Temperature 0...80 °C | 32200523 |



| Name | Description | p/n |
|---------------------|--|----------|
| PLAST ORP S7 | S7 head, epoxy body. Gel filling, double junction, maintenance-free. Ceramic diaphragm. Dimensions(LxØ)mm 120X12 - Temperature 0...60 °C | 32200663 |

| | | |
|----------------------|---------------------------------|----------|
| PLAST ORP BNC | With fixed cable 1mt., BNC Plug | 32200673 |
|----------------------|---------------------------------|----------|



ELECTRODES

Process electrodes



| Name | Description | p/n |
|----------------------------------|---|----------|
| BASIC PRO S7 - PG 13,5 | Combined pH electrode, S7 head. Length 120 mm. Glass body, ceramic diaphragm. Gel filling , maintenance-free. Withstands pressure of 2 bar - pH 0...14 - Temperature 0...60 °C | 32201021 |



| Name | Description | p/n |
|------------------------------------|---|----------|
| PLASTIC PRO S7 - PG 13,5 | Combined pH electrode, S7 head, with epoxy body. Length 120 mm. Good chemical resistant. Polymer filling , open pore. Maintenance-free. Withstands pressure of 6 bar - pH 0...14 - Temperature -10...60 °C | 32201101 |



| Name | Description | p/n |
|------------------------------------|--|----------|
| POLYMER PRO S7 - PG 13,5 | Combined pH electrode, S7 head, glass body. Length 120 mm. Polymer filling with barrier , open pore. Maintenance-free. Withstands pressure of 6 bar - pH 0...14 - Temperature -10...60 °C | 32201111 |



| Name | Description | p/n |
|---------------------------------------|---|----------|
| POLYMER HA PRO S7 - PG 13,5 | Combined pH electrode, S7 head, glass body. Length 120 mm. Polymer filling , open pore. Maintenance-free. Sterilizable . Special membrane with low alkaline error and resistant to the metals present in the sample. Withstands pressure of 6 bar - pH 0...14 - Temperature -10...130 °C | 32201061 |



| Name | Description | p/n |
|---------------------------------------|---|----------|
| POLYMER HF PRO S7 - PG 13,5 | Combined pH electrode, S7 head, glass body. Length 120 mm. Polymer filling , open pore. Maintenance-free. Special membrane HF resistant (0,01M 200mg at 20°C and 0,05M 1000mg at 50°C). Withstands pressure of 6 bar - pH 0...14 - Temperature 0...130 °C | 32201071 |



| Name | Description | p/n |
|---------------------------------|---|----------|
| PURE PRO S7 - PG 13,5 | Combined pH electrode, S7 head, glass body. Length 120 mm. Refillable KCl 3M electrolyte. Designed for low conductivity samples (<0,2 µS) pH 0...14 - Temperature 0...40 °C | 32201081 |



| Name | Description | p/n |
|-------------------------------------|--|----------|
| PURE PRO GEL S7 - PG 13,5 | Combined pH electrode, S7 head, glass body. Length 120 mm. Gel Filling, maintenance-free. Designed for low conductivity samples (<1 μS) Withstands pressure of 6 bar - pH 0...14 - Temperature 0...60 °C | 32201171 |



| Name | Description | p/n |
|---------------------------------------|---|----------|
| GEL HT PRO S7 - PG 13,5 | Combined pH electrode, S7 head. Length 120 mm. Glass body with 3 ceramic diaphragm. Gel Filling, maintenance-free. Withstands pressure of 16 bar - pH 0...14 - Temperature 0...130 °C | 32201001 |
| GEL HT PRO 225 S7 - PG 13,5 | Length 225 mm | 32201041 |



| Name | Description | p/n |
|---|--|----------|
| POLYMER HT PRO S7 - PG 13,5 | Combined pH electrode, S7 head, glass body. Length 120 mm. Polymer filling, open pore. Maintenance-free. Withstands pressure of 6 bar - pH 0...14 - Temperature 0...130 °C | 32201011 |
| POLYMER HT PRO 225 S7 - PG 13,5 | Length 225 mm | 32201051 |



| Name | Description | p/n |
|---|---|----------|
| POLYMER PLUS PRO S7 - PG 13,5 | Combined pH electrode, S7 head, glass body. Length 120 mm. Special polymer filling and encapsulated reference system. Maintenance-free. Open pore. Withstands pressure of 6 bar - pH 0...14 - Temperature 0...130 °C | 32201121 |
| POLYMER PLUS PRO 225 S7 - PG 13,5 | Length 225 mm | 32201211 |



| Name | Description | p/n |
|--|--|----------|
| GEL BIOTECH S7 - PG 13,5 | Combined pH electrode, glass body with 1 ceramic diaphragm. Length 120 mm. Maintenance-free, gel filling, pressurized for biotechnology and fermenters, prevents internal pollution by the sample. For SIP and CIP cycles. Withstands pressure of 6 bar - pH 0... 14 - Temperature 0... 130 °C | 32201241 |
| GEL BIOTECH 225 S7 - PG 13,5 | Length 225 mm | 32201251 |

ELECTRODES

VP head electrodes



| Name | Description | p/n |
|--|--|----------|
| POLYMER PLUS VP 120 VP HEAD - PT1000 | Combined pH electrode, VP Multipin screw head. Glass body. Length 120 mm. Special polymer filling and encapsulated reference system, maintenance-free. Open pore. Complete with PT1000 sensor. Withstands pressure of 6 bar - pH 0... 14 - Temperature 0... 130 °C | 32201351 |
| POLYMER PLUS VP 225 VP HEAD - PT1000 | Lenght 225mm. With PT1000 sensor. | 32201361 |
| POLYMER PLUS VP 120 VP HEAD - PT100 | Length 120 mm. With PT100 sensor. | 32201401 |



| Name | Description | p/n |
|------------------------------------|--|----------|
| POLYMER HT VP 120 VP | Combined pH electrode, VP Multipin screw head. Glass body. Length 120 mm. Polymer filling, maintenance-free. Open pore. Complete with PT1000 sensor. Withstands pressure of 6 bar - pH 0... 14 - Temperature 0... 130 °C | 32201301 |
| POLYMER HT VP 225 VP | Lenght 225mm | 32201311 |

Cleaning, maintenance and electrolyte solutions

| Name | Volume | p/n |
|---|--------|----------|
| KCL 3M + AgCl Solution | 55 ml | 32208113 |
| 1M LiCl IN ALCOOL ETILICO Solution | 100 ml | 12005033 |
| 3M KCL Solution | 55 ml | 32208003 |
| 3M KCL Solution | 500 ml | 32208013 |
| GLYCERIN-KCl Solution | 55 ml | 32208023 |
| KN03 1M FOR ELECTRODE XS STANDARD Ag Solution | 55 ml | 32208033 |
| ELECTRODES STORAGE Solution | 55 ml | 32208043 |
| ELECTRODES STORAGE Solution | 500 ml | 32208053 |
| PROTEIN CLEANING SOLUTION (PEPSINA) FOR FOOD INDUSTRY ELECTRODES | 55 ml | 32208063 |
| PROTEIN CLEANING SOLUTION (PEPSINA) FOR FOOD INDUSTRY ELECTRODES | 250 ml | 32208093 |
| DIAPHRAGM CLEANING (THIOUREA) Solution | 55 ml | 32208073 |
| DIAPHRAGM CLEANING (THIOUREA) Solution | 250 ml | 32208103 |
| REGENERATION SOLUTION (WITH HF) FOR pH ELECTRODES | 55 ml | 32208083 |

Redox process electrodes



| Name | Description | p/n |
|--|--|----------|
| BASIC ORP PLATINO S7 - PG 13,5 | Glass electrode for ORP measurements with gel filling. S7 screw head. Length 120 mm. Withstands pressure of 2 bar - Temperature 0... 60 °C | 32201031 |



| Name | Description | p/n |
|--|---|----------|
| PLASTIC PRO ORP S7 - PG 13,5 | Unbreakable epoxy body, S7 screw head. Length 120 mm. Polymer filling, ceramic diaphragm + open pore. Maintenance-free. Withstands pressure of 6 bar - Temperature -10... 60 °C | 32201141 |



| Name | Description | p/n |
|------------------------------------|---|----------|
| POLYMER ORP S7 - PG 13,5 | Glass body. S7 screw head. Length 120 mm. Polymer filling. Open pore. Maintenance-free. Withstands pressure of 6 bar - Temperature -10... 60 °C | 32201131 |



| Name | Description | p/n |
|-----------------------------------|--|----------|
| GEL HT ORP S7 - PG 13,5 | S7 screw head. Length 120 mm. Glass body with 3 ceramic diaphragms. Maintenance-free, gel filling. Withstands pressure of 16 bar - Temperature 0... 130 °C | 32201091 |

Process conductivity probe



| Name | Description | p/n |
|-------------|--|----------|
| SPT1 | Conductivity cell in graphite C = 1 with Pt 100 and 8 m cable. Range 0 mS... 10 mS - Temperature 0 ... 60 °C | 32390001 |

Conductivity probes



| Name | Description | | p/n |
|-------------------------|---|---|----------|
| VP 1 SENSORE | Platinum glass cell C = 1, fixed cable 1 m with BNC. Range 10µS... 100 mS |  | 50004062 |
| VPT 1 SENSORE | Platinum glass cell C = 1, with temperature sensor NTC 30KΩ fixed cable 1 m with BNC-Cinch. Range 10µS...100 mS |  | 50003352 |



| Name | Description | | p/n |
|--------------------------|---|---|----------|
| VPT 01 SENSORE | Cell in steel / PVC C = 0.1, with built-in temperature sensor. Fixed cable 1 m BNC-Cinch. Range 0.1µS... 1 mS |  | 50004012 |



| Name | Description | | p/n |
|--------------------------|--|---|----------|
| VPT 10 SENSORE | Platinum glass cell C = 10, with built-in temperature sensor, fixed cable 1 m BNC-Cinch. Range 100µS... 200 mS |  | 50004072 |



| Name | Description | | p/n |
|----------------------------|---|---|----------|
| VPT 10 H SENSORE | Platinum glass cell C = 10, with built-in temperature sensor, fixed cable 1 m BNC-Cinch. Range 100µS... 500 mS. ONLY for XS COND 80 |  | 50003372 |



| Name | Description | | p/n |
|------------------------------|--|---|----------|
| 2301 T SENSORE | Epoxy cell C = 1 with built-in temperature sensor, fixed cable 1 m. Working range 10µS... 200 mS |  | 50004002 |
| 2301 T / 3 SENSORE | Fixed cable 3 m | | 50004092 |
| 2301 T / 5 SENSORE | Fixed cable 5 m | | 50004022 |



| Name | Description | | p/n |
|----------------------------|---|---|----------|
| VPT SOIL SENSORE | Conductivity cell with temperature probe, C = 1, for soil measurement. Working range 10 µS... 50 mS |  | 50004082 |

Cables and accessories

LABORATORY

Cables are provided with S7 head to screw at the electrodes head.
The plug choice is related to the instrument used. Diameter 3 mm, lenght 1 m.

| Name | Description | | p/n |
|------------|--------------|---|----------|
| BNC | Cable S7-BNC |  | 33551733 |
| DIN | Cable S7-DIN |  | 33551743 |

PROCESS

Connecting cable for process electrodes. Diameter 5 mm.
Plug and lenght of the cable must be chosen based on the application.

| Name | Description | p/n |
|-------------------|---|----------|
| CABLE 5 MM | Coaxial cable with antistatic sheath for electrodes, diameter 5mm | 33550533 |
| S7 HEAD | Only S7 head for 5mm cable | 33412913 |
| BNC | Only BNC plug for 5 mm cable | 33412923 |
| DIN | Only DIN plug for 5 mm cable | 33550903 |

| | Lenght | p/n |
|---|--------|----------|
| PRE - ASSEMBLED CABLE WITH S7 HEAD - OPEN WIRES | 3 m | 33550733 |
| | 5 m | 33550663 |
| | 10 m | 33550803 |
| | 20m | 33550763 |
| PRE- ASSEMBLED CABLE WITH S7 HEAD - BNC PLUG | 1 m | 33550673 |
| | 3 m | 33550743 |
| | 5 m | 33550563 |
| | 10 m | 33550753 |
| | 20 m | 33550773 |
| PRE- ASSEMBLED CABLE WITH VP 6 FOR ELECTRODE WITH PT100 - PT1000 | 3 m | 33551091 |
| | 5 m | 33551101 |
| | 10 m | 33551111 |

BUFFER SOLUTIONS



XS GREEN LINE SOLUTIONS CALIBRATION AND QUALITY

pH and conductivity measurements and redox potential are routine operations in most laboratories and processes. Reliability and accuracy of measurements are essential for the quality control. The XS Green Line Solutions range suits your needs and guarantees an impeccable calibration.



PROFESSIONAL

XS PROFESSIONAL **ASSURANCE AND ACCREDITATION**

The more accurate the pH and conductivity measurements are, the more reliable the calibration solutions are. XS Professional solutions are a guarantee of metrological traceability of your measurement chain and are ideal for regulated areas. Traceability is ensured by the certifications of accredited external calibration laboratories UNI CEI EN ISO/IEC 17025. pH buffer solutions are DKD-DAkkS certified by calibration at the ZMK Zentrum für Messen und Kalibrieren. Conductivity standards are DANAK certified by calibration at the DFM Danish Institute of Fundamental Metrology. Upon request, it is available the Certification Report in accordance to ISO 17034.



BASIC

XS BASIC **TRACEABILITY AND RELIABILITY**

XS standard solutions are traceable to the IUPAC pH scale, using an unbroken chain of comparisons directly to NIST Standard Reference materials.

Each solution is provided with the Certificate of Analysis of the GIORGIO BORMAC internal Laboratory, which guarantees quality, traceability and accuracy. XS Basic solutions are your perfect partner to verify your sensors and measurement systems every day.

XS PROFESSIONAL pH

All solutions are ISO 9001 - DAkkS/DKD certified (ACCREDIA equivalent).
The Certificate is available on our website: www.xsinstruments.com

○ BOTTLE 250 ml

| Name | Description | p/n |
|-----------------|-----------------------|----------|
| pH 4.01 | ±0,02 / 25°C - Red | 51300003 |
| pH 7.00 | ±0,02 / 25°C - Green | 51300013 |
| pH 9.21 | ±0,02 / 25°C - Blue | 51300023 |
| pH 10.01 | ±0,02 / 25°C - Yellow | 51300033 |

○ BOTTLE 500 ml

| Name | Description | p/n |
|-----------------|-----------------------|----------|
| pH 4.01 | ±0,02 / 25°C - Red | 51300103 |
| pH 7.00 | ±0,02 / 25°C - Green | 51300113 |
| pH 9.21 | ±0,02 / 25°C - Blue | 51300123 |
| pH 10.01 | ±0,02 / 25°C - Yellow | 51300133 |

XS PROFESSIONAL COND

With DFM (Accredia equivalent) and N.I.S.T traceability,
The Certificate is available on our website: www.xsinstruments.com



○ BOTTLE 280 ml Glass

| Name | Description | p/n |
|-------------------------|----------------------|----------|
| 1,3 µS/cm (25°C) | DFM. Accuracy ±0,1µS | 51300303 |
| 5,0 µS/cm (25°C) | DFM. Accuracy ±0,1µS | 51300313 |

○ BOTTLE 500 ml with built-in calibration compartment

| Name | Description | p/n |
|----------------------------|--|----------|
| 84 µS/cm (25°C) | DFM. Accuracy ±1% | 51300323 |
| 147 µS/cm (25°C) | DFM. Accuracy ±1% | 51300333 |
| 1413 µS/cm (25°C) | 1278 µS/cm (20°C) - DFM. Accuracy ±1% | 51300343 |
| 12.880 µS/cm (25°C) | 11670 µS/cm (20°C) - DFM. Accuracy ±1% | 51300353 |

XS BASIC

BUFFER SOLUTIONS IN SACHETS

WITH N.I.S.T. TRACEABILITY.



○ SINGLE BUFFER

| Name | Description | p/n |
|------------------------------|---|----------|
| pH 4.01 (25°C) | Pack of 20 sachets 25 ml, red, with certificate of analysis | 51102013 |
| pH 7.00 (25°C) | Pack of 20 sachets 25 ml, green, with certificate of analysis | 51102023 |
| pH 10.01 (25°C) | Pack of 20 sachets 25 ml, with certificate of analysis | 51102043 |
| EC 1413 µS/cm (25°C) | Pack of 20 sachets 25 ml, with certificate of analysis | 51102053 |
| EC 12880 µS/cm (25°C) | Pack of 20 sachets 25 ml, with certificate of analysis | 51102063 |
| STORAGE | Pack of 20 sachets 10 ml, pH/ORP Sensor Storage Solution | 51102083 |
| H2O | Pack of 20 sachets 25ml, Distilled water for sensor cleaning | 51102093 |

○ CALIBRATION SET

| Name | Description | p/n |
|-------------------------|---|----------|
| SET CAL pH BIS | Pack of 20 sachets 25ml (10 x pH 4.01 and 10 x pH 7.00) | 51102203 |
| SET CAL pH BIS | Pack of 20 sachets 25ml (7 x pH 4.01, 7 x pH 7.00 and 6 x pH 10.01) | 51102213 |
| SET CAL COND | Pack of 20 sachets 25ml (10 x EC 1.413 µS and 10 x EC 12.880 µS) | 51102223 |
| SET CAL PC | Pack of 20 sachets 25ml (7 x pH 4.01, 7 x pH 7.00 and 6 x EC 1.413 µS) | 51102233 |
| REPLACEMENT pH | Pack of 20 sachets 25ml (6 x pH 4.01, 6 x pH 7.00, 6 x H2O distilled water and 2x Storage 10 ml) | 51102243 |
| REPLACEMENT COND | Pack of 20 sachets 25ml (7 x EC 1.413 µS, 7 x EC 12.880 and 6 x H2O distilled water) | 51102253 |
| REPLACEMENT PC | Pack of 20 sachets 25ml (5 x pH 4.01, 5 x pH 7.00, 5 x 1.413 µS, 3 x H2O distilled water and 2 x Storage 10 ml) | 51102263 |



DISPOSABLE BOTTLE 55 ml

| Name | Description | p/n |
|-----------------------|----------------------------|----------|
| pH 4,01 | ±0,02 / 25°C - Red | 32383123 |
| pH 7,00 | ±0,02 / 25°C- Green | 32383133 |
| pH 9,00 | ±0,02 / 25°C- Blue | 32383143 |
| pH 10,00 | ±0,02 / 25°C- - Uncoloured | 32382903 |
| 465 mV | ± 5mV / 25°C- Yellow | 32383163 |
| 475 mV | ± 5mV / 25°C- Yellow | 32383153 |
| EC 84 µS/cm | ± 1% / 25°C - Uncoloured | 60000613 |
| EC 1413 µS/cm | ± 1% / 25°C - Uncoloured | 60000423 |
| EC 12880 µS/cm | ± 1% / 25°C - Uncoloured | 60000433 |

pH BUFFERS

With N.I.S.T traceability.
The Certificate is available on our website: www.xsinstruments.com



○ BOTTLE 250 ml with built-in calibration compartment

| Name | Description | p/n |
|----------|---------------------------|----------|
| pH 4,01 | ±0,02 / 25°C - Red | 51100033 |
| pH 7,00 | ±0,02 / 25°C - Green | 51100043 |
| pH 9,00 | ±0,02 / 25°C - Blue | 51100053 |
| pH 9,21 | ±0,02 / 25°C - Blue | 51100073 |
| pH 10,01 | ±0,02 / 25°C - Uncoloured | 51100063 |

○ BOTTLE 500 ml with built-in calibration compartment

| Name | Description | p/n |
|----------|---------------------------|----------|
| pH 4,01 | ±0,02 / 25°C - Red | 51100133 |
| pH 7,00 | ±0,02 / 25°C - Green | 51100143 |
| pH 9,00 | ±0,02 / 25°C - Blue | 51100153 |
| pH 9,21 | ±0,02 / 25°C - Blue | 51100173 |
| pH 10,01 | ±0,02 / 25°C - Uncoloured | 51100163 |



○ POLITAINER 5000 ml (5 L)

| Name | Description | p/n |
|----------|---------------------------|----------|
| pH 4,01 | ±0,02 / 25°C - Red | 51100233 |
| pH 7,00 | ±0,02 / 25°C - Green | 51100243 |
| pH 9,00 | ±0,02 / 25°C - Blue | 51100253 |
| pH 9,21 | ±0,02 / 25°C - Blue | 51100273 |
| pH 10,01 | ±0,02 / 25°C - Uncoloured | 51100263 |

CONDUCTIVITY STANDARD

With N.I.S.T traceability and certificate downloadable from our website: www.xsinstruments.com

○ BOTTLE 280 ml glass

| Name | Description | | p/n |
|-------------------------|--------------------------|--|----------|
| 1,3 µS/cm (25°C) | N.I.S.T. Accuracy ±0,1µS | | 51100503 |
| 5,0 µS/cm (25°C) | N.I.S.T. Accuracy ±0,1µS | | 51100513 |

○ BOTTLE 500 ml with built-in calibration compartment

| Name | Description | | p/n |
|----------------------------|--|--|----------|
| 84 µS/cm (25°C) | N.I.S.T. Accuracy ±1% | | 51100613 |
| 147 µS/cm (25°C) | N.I.S.T Accuracy ±1% | | 51100623 |
| 1413 µS/cm (25°C) | 1278 µS/cm (20°C) - N.I.S.T. Accuracy ±1% | | 51100633 |
| 12.880 µS/cm (25°C) | 11670 µS/cm (20°C) - N.I.S.T. Accuracy ±1% | | 51100643 |

REDOX / ORP STANDARD

| Name | Description | | p/n |
|----------------------|----------------------|--|----------|
| 200 mV (25°C) | ± 5mV Bottle 250 ml | | 51100303 |
| 465 mV (25°C) | ± 5mV Bottle 55 ml | | 32383163 |
| 475 mV (25°C) | ± 5mV Bottle 250 ml | | 51100313 |
| 475 mV (25°C) | ± 5mV Bottle 500 ml | | 51100323 |
| 650 mV (25°C) | ± 5mV Politainer 5 l | | 51100333 |

CLEANING AND MAINTENANCE SOLUTIONS

| Name | Pack | p/n |
|---|--------|----------|
| Solution 3M KCL | 55 ml | 32208003 |
| Solution 3M KCL | 500 ml | 32208013 |
| Solution GLYCERIN-KCl | 55 ml | 32208023 |
| Solution KNO ₃ 1M for Electrode STANDARD Ag | 55 ml | 32208033 |
| Solution STORAGE for Electrodes | 55 ml | 32208043 |
| Solution STORAGE for Electrodes | 500 ml | 32208053 |
| Solution PROTEINS CLEANING (PEPSIN) for FOOD application Electrodes | 55 ml | 32208063 |
| Solution PROTEINS CLEANING (PEPSIN) for FOOD application Electrodes | 250 ml | 32208093 |
| Solution DIAPHRAGM CLEANING (THIOUREA) | 55 ml | 32208073 |
| Solution DIAPHRAGM CLEANING (THIOUREA) | 250 ml | 32208103 |
| Solution REGENERATION (with HF) for pH Electrodes | 55 ml | 32208083 |



Brochures **XS Buffer solutions** is available on our website
www.xsinstruments.com

TESTER



SENSOR WARRANTY
6
MONTHS

ELECTRONIC PART WARRANTY
1
YEAR



IP67
WATERPROOF



APPLICATIONS:

- FARMING
- WATER AND WASTEWATER TREATMENT
- HYDROPONIC CROPS AND AQUARIUMS
 - ENVIRONMENTAL MONITORING
- POOLS AND THERMAL CENTERS
- FOOD AND BEVERAGE
 - COOLING TOWER
 - GALVANIC
- GRAPHIC INDUSTRY
 - SCHOOLS

SELECTION GUIDE

| | PX4 | pH5 | pH5FOOD | COND 5 | ORP 5 | PC 5 | PC 6 |
|--------------------------|------------------|------------------|------------------|-----------------------|------------------|----------------------|----------------------|
| pH | ● | ● | ● | ○ | ○ | ● | ● |
| Redox | ● | ○ | ○ | ○ | ● | ○ | ● |
| Conductivity | ○ | ○ | ○ | ● | ○ | ● | ● |
| TDS | ○ | ○ | ○ | ● | ○ | ● | ● |
| Salinity | ○ | ○ | ○ | ● | ○ | ● | ● |
| Temperature | ● | ● | ● | ● | ● | ● | ● |
| pH measuring range | -2 ... 16 | -2 ... 16 | -2 ... 16 | - | - | -2...16 | -2...16 |
| Resolution | 0.01 | 0.01 | 0.01 | - | - | 0.01 | 0.01 |
| Calibration points | 1...3 | 1...3 | 1...3 | - | - | 1...3 | 1...3 |
| Stability indications | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| mV (pH) measuring range | -1000...+1000 mv | -1000...+1000 mv | -1000...+1000 mv | - | - | -1000 ...+1000mv | -1000...+1000 mv |
| Resolution | 0,1/ 1 mv | 0,1/ 1 mv | 0,1/ 1 mv | - | - | 0,1/ 1 mv | 0,1/ 1 mv |
| mV (redox) range | -1000...+1000 mv | - | - | - | -1000...+1000 mv | - | -1000...+1000 mv |
| Resolution | 0,1/ 1 mv | - | - | - | 0,1/ 1 mv | - | 0,1/ 1 mv |
| Calibration | 1 point | - | - | - | 1 point | - | 1 point |
| COND measuring range | - | - | - | 0,01uS...199,99 mS | - | 0,01uS...199,99mS | 0,01uS...199,99mS |
| Resolution | - | - | - | Auto | - | Auto | Auto |
| Calibratin point | - | - | - | 1...3 | - | 1...3 | 1...3 |
| Reference T | - | - | - | 20 / 25 °C | - | 20 / 25 °C | 20 / 25 °C |
| TDS measuring range | - | - | - | 0,01ppm...199,9ppt | - | 0,01ppm...199,9ppt | 0,01ppm...199,9 ppt |
| TDS factor | - | - | - | 0.40 ... 1.00 | - | 0.40 ... 1.00 | 0.40 ... 1.00 |
| Salinity measuring range | - | - | - | 0,1mg/l ... 100,0 g/l | - | 0,1 mg/l...100,0 g/l | 0,1 mg/l...100,0 g/l |
| Temperature range | 0 ... 60 °C | 0 ... 60 °C | 0 ... 60 °C | 0 ... 60 °C | 0 ... 60 °C | 0 ... 60 °C | 0 ... 60 °C |
| Display | 3 colour | 3 colour | 3 colour | 3 colour LCD | 3 colour LCD | 3 colour | 3 colour |
| IP protection | IP 67 | IP 67 | IP 67 | IP 67 | IP 67 | IP 67 | IP 67 |
| Sensor | Replaceable | Replaceable | Replaceable | Replaceable | Replaceable | Replaceable | Replaceable |
| Code | 50014143 | 50014063 | 50014113 | 50014213 | 50014313 | 50014263 | 50014293 |

TESTER



The KIT includes: sachets buffer solutions 25 ml, calibration cap, lanyard, tissue, quick manual and cardboard case.

pH 1

○ pH

MAIN FEATURES

IP67 watertight portable pH meter. Resolution 0.1 pH with microprocessor and fixed sensor. Push-button calibration on 1 or 2 points (choosing between pH 4, 7, 10). Wide LCD display with indication of the buffers used for calibration and measurement stability. **Automatic temperature compensation.** Auto power off function. **Self-diagnosis messages: low batteries, calibration errors.** Power supply with 2 x 1.5V AAA batteries included, compatible with rechargeable batteries too. 6-month warranty on electronic parts.

Measuring range: pH 0,0...14,0 (0,1 pH). Working temperature: 0..50°C

The KIT includes: standard buffer solutions sachets pH 7 and pH 4 , 25 ml, sachets storage solution, calibration cap, lanyard, tissue, quick manual and cardboard case.



| Name | Description | p/n |
|------------------------|--|----------|
| pH 1 KIT | pH 1 Kit complete | 50014013 |
| pH 1 ECOPACK | pH 1, batteries 1,5 V AAA, lanyard, tissue | 50014003 |

COND 1

○ Conductivity - TDS

MAIN FEATURES

IP67 watertight portable conductivity meter for Conductivity and TDS measurement. Indication of the buffers used for calibration and measurement stability. Auto power off function. Self-diagnosis messages. Power supply with 2 x 1.5V AAA batteries included, compatible with rechargeable batteries too. 6-month warranty on electronic parts.

Measuring range: COND 0,01 µS...200 mS; TDS 0,01 ppm...199,9 ppt. Working temperature: 0..50°C

The KIT includes: standard buffer solutions sachets 1413 µS e 12,88 mS 25 ml, lanyard, tissue, quick manual and cardboard case.



| Name | Description | p/n |
|--------------------------|--|----------|
| COND 1 KIT | COND 1 Kit complete | 50014163 |
| COND 1 ECOPACK | COND 1, batteries 1,5 V AAA, lanyard, quick manual | 50014153 |

TESTER

pH 5

○ pH - mV - T

MAIN FEATURES

IP67 watertight portable pH meter. Resolution 0,01 pH. Interchangeable electrode, temperature sensor and open partitions. **Wide 3-colour LCD display with indication of the buffers used for calibration and measurement stability.** Push-button calibration on 3 points with 5 values of USA buffers. mV reading for pH electrode diagnosis. **Temperature reading.** Auto power off function. **Automatic temperature compensation** (0...60 °C). Self-diagnosis messages: low batteries, calibration errors. Power supply with 2 x 1.5V AAA batteries included, compatible with rechargeable batteries too. 1 year warranty on electronic parts.

Measuring range: pH: -2,00...16,00 (Resolution 0,01 pH); mV: -1.000...+1.000 mV; °C: 0,0...60,0 (0,1 °C).

The KIT includes: 1 sachet x 25ml pH 7 and pH 4 buffer solution, 1 sachet of electrode storage solution, calibration cap, lanyard, tissue, quick manual and cardboard case.



| Name | Description | p/n |
|--------------------------|---|----------|
| pH 5 KIT | pH 5 Kit complete | 50014063 |
| pH 5 ECOPACK | pH 5, batteries 1,5 V AAA, lanyard and quick manual | 50014053 |
| pH 5 ONLY BODY | pH 5, without sensor | 50014073 |
| ELECTRODE pH | Replacement electrode for pH 5 | 50014403 |

pH 5 Food

○ pH - mV - T

MAIN FEATURES

IP67 watertight portable pH meter. Resolution 0,01 pH. Interchangeable polymer-tipped electrode, temperature sensor and open partitions for **measurements in the food industry.** **Wide 3-colour LCD display with indication of the buffers used for calibration and measurement stability.** Push-button calibration on 3 points with 5 values of USA buffers. mV reading for pH electrode diagnosis. **Temperature reading.** Auto power off function. **Automatic temperature compensation** (0...60 °C). Self-diagnosis messages: low batteries, calibration errors. Power supply with 2 x 1.5V AAA batteries included, compatible with rechargeable batteries too. 1 year warranty on electronic parts.

Measuring range: pH: -2,00...16,00 (Resolution 0,01 pH); mV: -1.000...+1.000 mV; °C: 0,0...60,0 (0,1 °C).

The KIT includes: 1 sachet x 25ml pH 7 and pH 4 buffer solution, 1 sachet of electrode storage solution, calibration cap, lanyard, tissue, quick manual and cardboard case



| Name | Description | p/n |
|-----------------------------|---|----------|
| pH 5 Food KIT | pH 5 Food Kit complete | 50014113 |
| pH 5 Food ECOPACK | pH 5 Food with batteries 1,5 V AAA, lanyard, quick manual | 50014123 |
| ELECTRODE pH | Replacement electrode for pH 5 Food | 50014423 |

COND 5

○ Conductivity - TDS - Salinity - T

MAIN FEATURES

IP67 watertight portable conductivity meter for Conductivity, TDS and Salinity measurement. High-durable interchangeable electrode. **Wide 3-color LCD display** with indication of the buffers used for calibration and measurement stability. Push-button calibration on 3 points with 3 standard values, choosing between 84, 1413 μ S e 12,88 mS. Reading and automatic temperature compensation with TR= 20/25 °C and adjustable coefficient TC= 0,00...4,00%/°C. TDS Factor: 0,40...1,00. Self-diagnosis messages. Power supply with 2 x 1.5V AAA batteries included, compatible with rechargeable batteries too. Auto power off function. 1-year warranty on electronic parts.

Measuring range: COND 0,01 μ S...200 mS; TDS 0,01 ppm...199,9 ppt; Salinity 0,1mg/l...100,0 g/.

The KIT includes: 1 sachet x 25ml 1413 μ S and 12,88 mS buffer solution, calibration cap, lanyard, tissue, quick manual and cardboard case.



| Name | Description | p/n |
|-------------------------|--|----------|
| COND 5 KIT | COND 5 Kit complete | 50014213 |
| COND 5 ECOPACK | COND 5, batteries 1,5 V AAA, lanyard and quick manual | 50014203 |
| COND 5 ONLY BODY | COND 5, without sensor | 50014223 |
| SENSOR COND | Replacement sensor for COND 5 | 50014413 |
| VPT SOIL COND 5 | Conductivity cell with temperature probe, C = 1, fo ground measurement, working range 10 μ S ... 50 mS, cable 1.5 m for COND 5 | 50014713 |

ORP 5

○ Redox - T

MAIN FEATURES

IP67 watertight portable ORP/Redox meter. Resolution 0,1/1 mV. With microprocessor and interchangeable high-durable electrode. **ORP calibration** on one point defined by the user. Wide 3-color LCD display with indication of measurement stability. Auto power off function. **Temperature reading. Self-diagnosis messages.** Power supply with 2 x 1,5V AAA batteries included, compatible with rechargeable batteries too. 1 year warranty on electronic parts.

Measuring range: mV: -1.000...+1.000 mV; °C: 0,0...60,0 (0,1 °C).

The KIT includes: : 1 bottle x 55ml Redox 475 mV solution, 1 sachet of electrode storage solution, calibration cap, lanyard, tissue, quick manual and carboard case.



| Name | Description | p/n |
|---------------------|------------------------------|----------|
| ORP 5 KIT | ORP 5 Kit complete. | 50014313 |
| SENSOR REDOX | Replacement sensor for ORP 5 | 50014443 |

PX 4

○ pH - Redox - T

MAIN FEATURES

IP67 watertight portable pH and ORP/Redox meter. Resolution 0,01 pH and mV. With microprocessor and interchangeable combined electrode. **Wide 3-colour LCD display** with indication of the buffers used for calibration and measurement stability. **pH automatic calibration** on 3 points with 5 values of USA buffers and **ORP calibration** on 1 point defined by user. **mV reading for pH electrode diagnosis** and ORP/Redox measurement. **Temperature reading**. Auto power off function. **Automatic temperature compensation** (0...60 °C). Indication of measurement stability. Auto power off function. Temperature reading. Self-diagnosis messages: low batteries, calibration errors. Power supply with 2 x 1.5V AAA batteries included, compatible with rechargeable batteries too. 1 year warranty on electronic parts.

Measuring range: pH: -2,00...16,00 (0,01 pH); mV: -1.000...+1.000 mV; °C: 0,0...60,0 (0,1 °C).

The KIT includes: 1 sachet x 25ml pH 7 and pH4, 1 bottle x 55ml Redox 475 mV, 1 sachet of electrode storage solution, calibration cap, lanyard, tissue, quick manual and cardboard case.



| Name | Description | p/n |
|--------------------------------|--|----------|
| PX 4 KIT | PX 4 Kit complete | 50014143 |
| PX 4 ECOPACK | PX 4 , batteries 1,5 V AAA, lanyard and quick manual | 50014173 |
| ELECTRODE pH + REDOX | Replacement sensor for PX 4 | 50014463 |

PC 5

○ pH - Conductivity- TDS - Salinity -T

MAIN FEATURES

IP67 watertight portable multiparameter for pH, Conductivity, TDS and Salinity measurement. Combined **interchangeable electrode**. Indication of the buffers used for calibration and measurement stability. Self-diagnosis messages. Power supply with 2 x 1.5V AAA batteries included, compatible with rechargeable batteries too. Auto power off function.

pH: Resolution 0,01 pH. Push-button calibration on 3 points with 5 values of USA buffers. mV reading for pH electrode diagnosis.

COND: Push-button calibration on 3 points with 3 standard values, choosing between 84, 1413 µS e 12,88 mS. Adjustable coefficient TC= 0,00...4,00%/°C.

TDS Factor: 0,40...1,00.

Measuring range:

pH: -2,00...16,00 (0,01 pH);

mV: -1.000...+1.000 mV;

COND 0,01 µS...200 mS;

TDS 0,01 ppm...199,9 ppt;

Salinity 0,1mg/l...100,0 g/l;

T: 0,0...60,0°C (0,1 °C).

The KIT includes: 1 sachet x 25ml pH 7 and pH 4, 1 sachet of electrode storage, 1 sachet x 25ml 1413 µS buffer solution, calibration cap, lanyard, tissue, quick manual and cardboard case.



| Name | Description | p/n |
|------------------------|--|----------|
| PC 5 KIT | PC 5 Kit complete | 50014263 |
| PC 5 ECOPACK | PC 5 , batteries 1,5 V AAA, lanyard and quick manual | 50014253 |
| ELECTRODE PC | Replacement electrode for PC 5 | 50014433 |

TESTER

PC 6

○ pH -Redox - Conductivity- TDS - Salinity - T

MAIN FEATURES

IP67 watertight portable multiparameter for pH, ORP, Conductivity, TDS and Salinity measurement. High-durable combined interchangeable electrode. **Wide 3-colour LCD display** with **indication of the buffers used for calibration** and measurement stability. **Automatic temperature compensation** (0...100°C). Auto power off function. Self-diagnosis messages: low batteries, calibration errors. Power supply with 2 x 1.5V AAA batteries included, compatible with rechargeable batteries too.

1 year warranty on electronic parts.

pH: Resolution 0,01 pH. Push-button calibration on 3 points with 5 values of USA buffers and . ORP calibration on one point defined by the user.

mV reading for pH electrode diagnosis and ORP/Redox measurement.

COND: Automatic calibration on 3 points with 3 standard, choosing between 84, 1413 µS e 12,88 mS.

Automatic temperature compensation with TR= 20/25°C and adjustable coefficient

TC= 0,00...4,00%/°C.

TDS factor: 0,40...1,00.



Measuring range :

pH: -2,00...16,00 (0,01 pH);

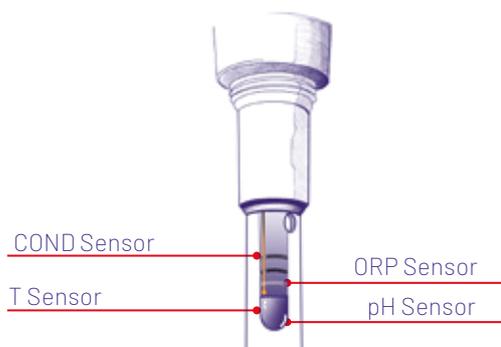
mV: -1.000...+1.000 mV;

COND 0,01 µS...200 mS;

TDS 0,01 ppm...199,9 ppt;

Salinity 0,1mg/l...100,0 g/l; °

C: 0,0...60,0°C (0,1 °C).



The KIT includes: pH 7 and pH 4 buffer solutions (sachets 25 ml), storage solution in sachet, 1413 µS sachets 25 ml standard solution, calibration cap, lanyard, tissue, quick manual and cardboard case.

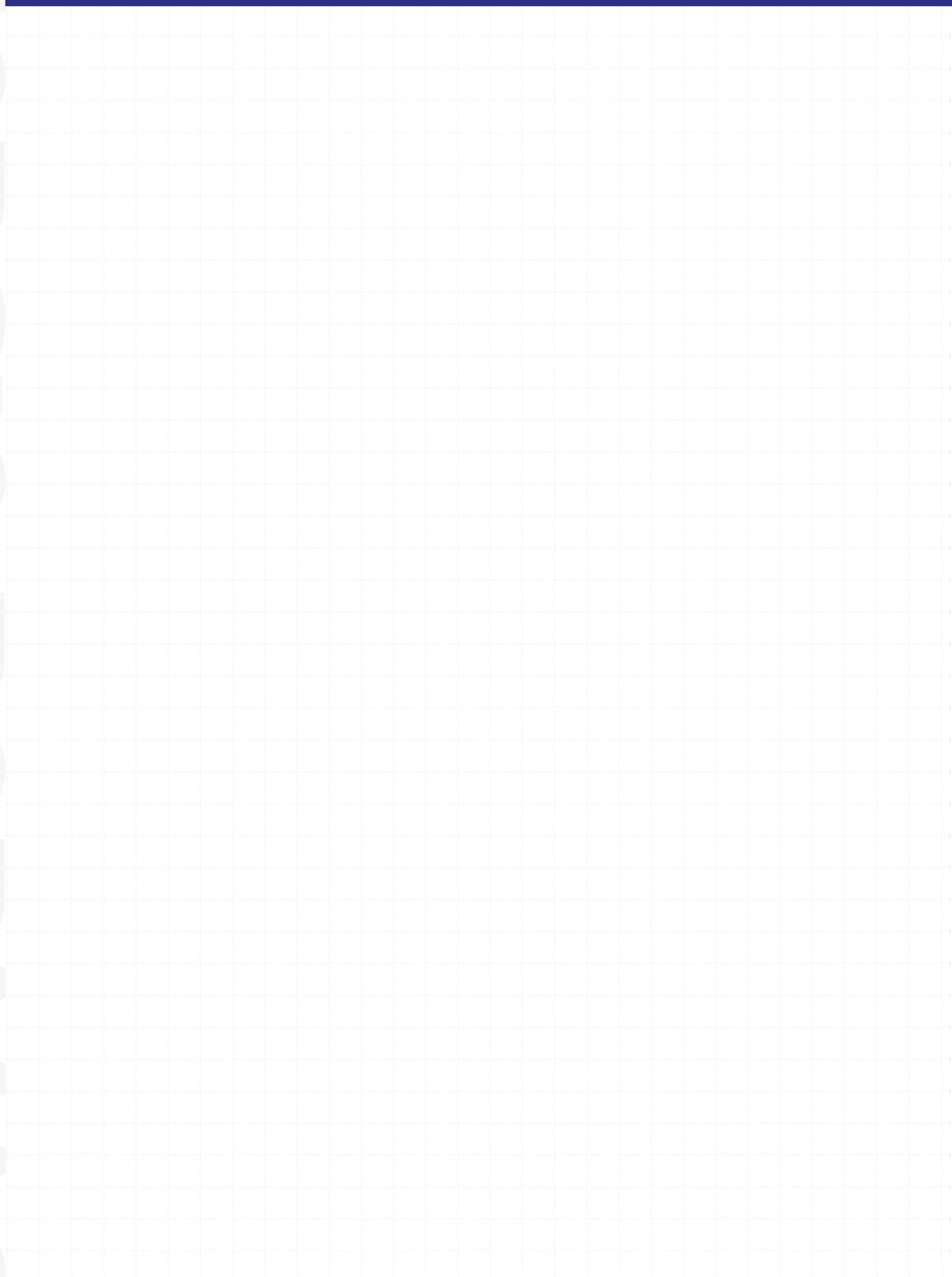
| Name | Description | p/n |
|------------------------|--------------------------------|----------|
| PC 6 KIT | PC 6 Kit complete | 50014293 |
| ELECTRODE PC | Replacement electrode for PC 6 | 50014483 |

CALIBRATION BUFFER SOLUTIONS

| Name | Description | p/n |
|------------------|---|----------|
| pH 4,01 | 1 bottle x 55 ml buffer solution. Accuracy ±0,01 pH | 32383123 |
| pH 7,00 | 1 bottle x 55 ml buffer solution. Accuracy ±0,01 pH | 32383133 |
| 475 mV | 1 bottle x 55 ml buffer solution for REDOX | 32383153 |
| 1413 µS | 1 bottle x 55 ml buffer solution | 60000423 |
| 12 880 µS | 1 bottle x 55 ml buffer solution | 60000433 |
| 84 µS | 1 bottle x 55 ml buffer solution | 60000613 |

NOTE

TESTER



BALANCES

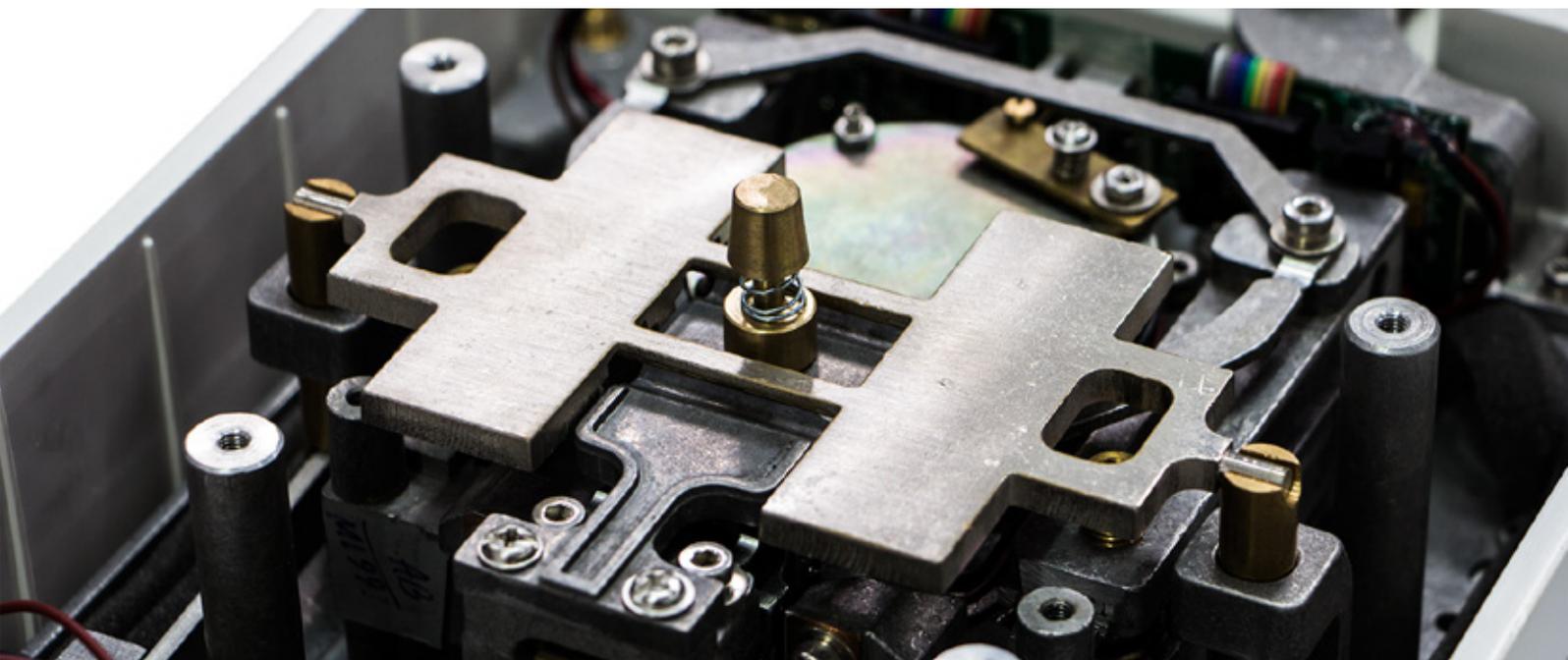


WARRANTY
2
YEARS



★ ★ ★ ★ ★
EU ★ ★ ★ ★ ★
Designed

ISO 9001
CERTIFIED



HOW TO CHOOSE

| Resolution (g) | Capacity (g) | Model | Calibration | RS-232 | Batteries | p/n |
|----------------|--------------|---------------------------------|-------------|--------|-----------|----------|
| 0,0001 | 220 | BL 224 TOUCHSCREEN | Internal | ● | | 27006013 |
| 0,0001 | 220 | BL 224 | Internal | ● | | 27006003 |
| 0,0001 | 220 | BL 224 BASIC | External | ● | | 27005993 |
| 0,001 | 300 | BL 303 | External | ● | ● | 27000513 |
| 0,001 | 110 | BM 113 MOISTURE ANALIZER | External | ● | | 27001303 |
| 0,01 | 600 | BL 602 | External | ● | ● | 27000323 |
| 0,01 | 2.000 | BL 2002 BASIC | External | | ● | 27000303 |
| 0,01 | 2.000 | BL 2002 | External | ● | ● | 27000313 |
| 0,1 | 3.000 | BL 3001 | External | ● | ● | 27000113 |
| 0,1 | 6.000 | BL 6001 BASIC | External | | ● | 27000293 |
| 0,1 | 6.000 | BL 6001 | External | ● | ● | 27000123 |
| 0,1 | 30.000 | BL 30K1 | External | | ● | 27000133 |
| 1 | 3.000 | BW 3000 WATERPROOF | External | | ● | 27001003 |
| 1 | 30.000 | BL 30K | External | ● | ● | 27001203 |
| 10 | 100.000 | BL 100K | External | ● | | 27001213 |

BL 224 TOUCH

- Touchscreen graphic display
- Capacity: 220 g
- Resolution: 0,0001 g (0,1 mg)

MAIN FEATURES

Analytical, digital balance of precision. Stainless steel pan. Protection case against air currents in laboratory. Upper opening for pipetting without having to remove the case. Standard RS 232 output for connection to PC or printer.

Provided with standard 220V power supply.

Supplied with external standard weight for calibration 200 g - F1 class.

Supplied with Certificate of calibration made with weights certified Accredia, including test of repeatability, linearity and decentred load.



| Name | Calibration | Ø Plate (mm) | Repeatability (g) | Linearity (g) | p/n |
|------------------------------|-------------|--------------|-------------------|---------------|----------|
| BL 224 TOUCHSCREEN | INTERNAL | 80 | 0,0002 | ± 0,0003 | 27006013 |

BL 224

- Capacity: 220 g
- Resolution: 0,0001 g (0,1 mg)

MAIN FEATURES

Analytical, digital balance of precision. Backlit display. Stainless-steel pan. Protection case against air currents in laboratory. Upper opening for pipetting without having to remove the case. Piece counter mode, determination of %, formulations, pipette calibration function, statistics and density calculation (with optional accessory kit).

Standard RS 232 output for connection to PC or printer.

Provided with standard 220V power supply.

Supplied with Certificate of calibration made with weights certified Accredia, including test of repeatability, linearity and decentred load.



| Name | Calibration | Ø Plate (mm) | Repeatability (g) | Linearity (g) | p/n |
|---------------|-------------|--------------|-------------------|---------------|----------|
| BL 224 | INTERNAL | 90 | 0,0002 | ± 0,0002 | 27006003 |

BL 224 BASIC

- Capacity: 220 g
- Resolution: 0,0001 g (0,1 mg)

MAIN FEATURES

Analytical, digital balance of precision. Backlit display. Stainless-steel pan. Protection case against air currents in laboratory. Upper opening for pipetting without having to remove the case. Standard RS 232 output for connection to PC or printer. Standard 220V power supply.

Supplied with external standard weight for calibration 100 g - E2class.

Supplied with **Certificate of calibration made with weights certified Accredia, including test of repeatability, linearity and decentred load.**



| Name | Calibration | Ø Plate (mm) | Repeatability (g) | Linearity (g) | p/n |
|------------------------|-------------|--------------|-------------------|---------------|----------|
| BL 224 BASIC | EXTERNAL | 80 | 0,0003 | ± 0,0003 | 27005993 |

BL 303

- Capacity: 300 g
- Resolution: 0,001 g (1 mg)

MAIN FEATURES

Backlit display. Round pan with diameter 118 mm in stainless-steel.

Protection case against air currents in laboratory.

Upper opening for pipetting without having to remove the case.

Piece counter mode, determination of % and 21 different selectable measurement units.

Balance with dual power supply, AGM rechargeable battery and standard power supply.

Standard RS 232 output for connection to PC or printer.

Supplied with case and a weight of 100 g M1 class.

Provided with Certificate of calibration with weights Accredia certified, including test of repeatability, linearity and decentred load.



| Name | Calibration | Ø Plate (mm) | Repeatability (g) | Linearity (g) | p/n |
|---------------|-------------|--------------|-------------------|---------------|----------|
| BL 303 | EXTERNAL | 118 | 0,001 | ± 0,003 | 27000513 |

BL 602

- Capacity: 600 g
- Resolution: 0,01 g

MAIN FEATURES

Technical, digital balance of precision. Backlit Display.
 Round pan with diameter 118 mm in stainless-steel.
 Protection case, easily removable, ideal for counting small pieces, protected from external disturbances.
 Upper opening for pipetting without having to remove the case.
 Piece counter mode, determination of % and 21 different selectable measurement units. Balance with dual power supply, AGM rechargeable battery standard power supply.
 Standard RS 232 output for connection to PC or printer.
 Supplied with case and 2 standard weights of 100 g M1 class.



| Name | Calibration | Ø Plate (mm) | Repeatability (g) | Linearity (g) | p/n |
|--------|-------------|--------------|-------------------|---------------|----------|
| BL 602 | EXTERNAL | 118 | 0,01 | ± 0,03 | 27000323 |

BL 2002

- Capacity: 2000 g
- Resolution: 0,01 g

MAIN FEATURES

Technical, digital balance of precision. Backlit Display.
 Rectangular stainless-steel pan.
 Piece counter mode, determination of % and 21 different selectable measurement units.
 Balance with dual power supply, AGM rechargeable battery and standard power supply.
 Standard RS 232 output for connection to PC or printer.
 Supplied with dust protection cover and a standard weight of 1 Kg M1 class.



| Name | Calibration | Ø Plate (mm) | Repeatability (g) | Linearity (g) | p/n |
|---------|-------------|--------------|-------------------|---------------|----------|
| BL 2002 | EXTERNAL | 188 x 148 | 0,01 | ± 0,02 | 27000313 |

BL 3001 / 6001

- Capacity: 3 Kg / 6 Kg
- Resolution: 0,1 g



MAIN FEATURES

Technical, digital balance of precision. Backlit Display.
 Rectangular stainless-steel pan mm 188 x 148.
 Piece counter mode, determination of % and 21 different selectable measurement units. Balance with dual power supply, AGM rechargeable battery and standard power supply.
 Standard RS 232 output for connection to PC or printer.
 Supplied with dust protection cover and a standard weight of 1 Kg M1 class.

| Name | Calibration | Ø Plate (mm) | Repeatability (g) | Linearity (g) | p/n |
|----------------|-------------|--------------|-------------------|---------------|----------|
| BL 3001 | EXTERNAL | 188 x 148 | 0,1 | ± 0,2 | 27000113 |
| BL 6001 | EXTERNAL | 188 x 148 | 0,1 | ± 0,2 | 27000123 |

BL BASIC: 2002 / 6001

- The cheapest
- Capacity: 2000 g / 6000 g
- Resolution: 0,01 g / 0,1 g



MAIN FEATURES

Technical, digital balance of precision with backlit Display.
 Rectangular stainless-steel weighing plate.
 Piece counter mode.
 Balance with dual power supply, AGM rechargeable battery and standard power supply.

| Name | Calibration | Ø Plate (mm) | Repeatability (g) | Linearity (g) | p/n |
|-------------------------|-------------|--------------|-------------------|---------------|----------|
| BL 2002 BASIC | EXTERNAL | 160 x 120 | 0,02 | ± 0,03 | 27000303 |
| BL 6001 BASIC | EXTERNAL | 143 x 192 | 0,2 | ± 0,2 | 27000293 |

NEW

BL 30K 1

- Capacity: 30 Kg
- Resolution: 0,1 g

MAIN FEATURES

Technical, digital balance of precision with backlit Display.
 Rectangular stainless-steel weighing plate.
 Piece counter mode, determination of % and different selectable measurement units.
 Balance with dual power supply, AGM rechargeable battery and standard power supply.



| Name | Calibration | Ø Plate (mm) | Repeatability (g) | Linearity (g) | p/n |
|----------|-------------|--------------|-------------------|---------------|----------|
| BL 30K 1 | EXTERNAL | 320 x 260 | 0,2 | ± 0,2 | 27000133 |

BL 30K

- Capacity: 30 Kg
- Resolution: 1 g

MAIN FEATURES

Technical, digital balance of precision.
 Rectangular stainless-steel weighing plate.
 Piece counter mode, determination of % and different selectable measurement units.
 Balance with dual power supply, AGM rechargeable battery and standard power supply.
 Standard RS 232 output for connection to PC or printer.



| Name | Calibration | Ø Plate (mm) | Repeatability (g) | Linearity (g) | p/n |
|--------|-------------|--------------|-------------------|---------------|----------|
| BL 30K | EXTERNAL | 255 X 190 | 1 | ± 3 | 27001203 |

BL 100K

- Capacity: 100 Kg
- Resolution: 10 g

MAIN FEATURES

Technical, digital balance of precision.
 Removable backlit Display.
 Rectangular stainless-steel weighing plate.
 Piece counter mode, determination of % and different selectable measurement units.
 Standard 220V power supply.



| Name | Calibration | Ø Plate (mm) | Repeatability (g) | Linearity (g) | p/n |
|---------|-------------|--------------|-------------------|---------------|----------|
| BL 100K | EXTERNAL | 300 X 400 | 10 | ± 10 | 27001213 |

BM 113 MOISTURE ANALYSER

- Capacity: 110 g
- Resolution: 0,001g



MAIN FEATURES

Precision thermobalance. Backlit Display.
 Stainless steel round weighing plate with an external diameter of 90 mm.
 GLP protocol.
 Internal memory for automatic sequence of 15 drying programs.
 Three drying methods: Soft, Standard, Fast.
 Three switch-off methods: Auto, Manual, Timer.
 400W Halogen lamp.
 Standard RS 232 output for connection to PC or printer.
 Supplied with: standard weight of 100 g for calibration and control, and 50 aluminium plates, and calibration report, including test of repeatability, linearity, decentred load and temperature check.

| Name | Calibration | Ø Plate (mm) | Repeatability (g) | Linearity (g) | p/n |
|---------------|---|--------------|-------------------|---------------|----------|
| BM 113 | EXTERNAL | 90 | 40 - 199 °C | 1 - 99 min | 27001303 |
| PLATES | Single use aluminium plates with external diam. 90 mm, 1 pack x 50 pieces | | | | 27000883 |

BW 3000 WATERPROOF

- Capacity: 3000 g
- Resolution: 1 g
- IP67
- Double display



MAIN FEATURES

IP67 watertight digital precision technical balance.
 Dual display, one on the front and one in the back, very useful for assembly line work.
 Stainless steel rectangular weighing plate with dimensions 220 x 180 mm.
 Piece counter mode, determination of %
 Metal outer case
 Balance with dual power supply, AGM rechargeable battery and standard power supply.

| Name | Calibration | Ø Plate (mm) | Repeatability (g) | Linearity (g) | p/n |
|----------------|-------------|--------------|-------------------|---------------|----------|
| BW 3000 | EXTERNAL | 220 X 180 | 1 | ± 1 | 27001003 |

ACCESSORIES

| Name | Description | | p/n |
|-----------------------|---|--|----------|
| COVER | Protective cover for XS BALANCE compatible with the models: BL602, BL2002, BL3001, BL6001. | | 27000803 |
| PRINTER RS 232 | Thermal paper printer for XS BALANCE with RS 232 output. | | 27000863 |
| CERTIFICATE | Accredited Calibration certificate Accredia for XS BALANCE. To be ordered together with the balance (when not already included) | | 27000903 |
| WEIGHT 100 g | Weight 100 g in class M1 for XS Balances | | 27000813 |
| WEIGHT 1 Kg | Weight 1000 g in class M1 for XS Balances | | 27000823 |

BALANCES

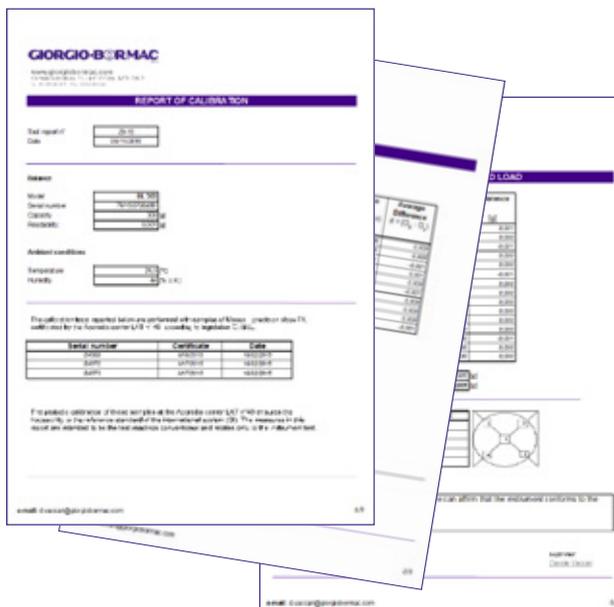
CALIBRATION REPORT

The certificate is filled in at Giorgio Bormac's company. Certificated Accredia weights are used for testing the balances.

On the Certificate are reported the test results of:

- **REPEATABILITY**
- **LINEARITY**
- **DECENTRED LOAD**
- **TEMPERATURE CHECK (only BM 113)**

According to Accredia guidelines for balance calibration



CENTRIFUGES

NEYA
by XS

WARRANTY
2
YEARS



EU Designed

ISO certified
manufacturer



HOW TO IDENTIFY THE ACCESSORIES

FIRST LETTER

A = Fixed angle rotor
S = Swing out rotor
B = Bucket
SB = Swing out rotor + Buckets (KIT)
L = Lid of bucket
I = Insert for bucket
C = Cushion
RE = Reductor
T = Tube
PCR = PCR rotor

CENTRAL NUMBERS*

1° NUMBER = maximum number of tubes
2° NUMBER = capacity of the tube (ml)

Only in the reducers (RE), the central numbers identify the capacity reduction (ml); in case of only one central number, it represents the capacity.
In the PCR rotor the central numbers identify the number of PCR strips and the number of tubes for each single strip.

FINAL LETTER

F = Falcon® tube or conical bottomed tube included
P = Plastic round-bottomed tube included
G = Glass round-bottomed tube included
R = Suitable for round-bottomed tube
X = Additional bucket (long version)

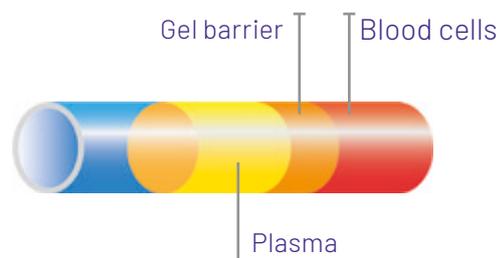
- A 32-15** Fixed-angle rotor for 32 – 15 ml tubes
- S 4-175** Swing out rotor for 4 buckets of 175 ml
- B 16-5/7** Aluminium bucket for 16 tubes of 5/7 ml
- SB 4-175** Kit composed by swing out rotor S 4-175 and 4 glasses B 175 of 175 ml
- I 4-15R** Insert for 4 round-bottomed tubes of 15 ml
- RE 50-15F** Conical bottomed reductor from 50 ml to 15 ml
- B 50XF** Test tube rack extra version with Falcon® test tube 50 ml

CENTRIFUGING

The centrifuges are instruments used in many laboratories to separate particles in liquid solutions or in liquids with a different density, using an artificial centrifugal field. The application of the centrifuges allows to develop a much higher force than the Earth's gravity, speeding-up the separation and sedimentation process.

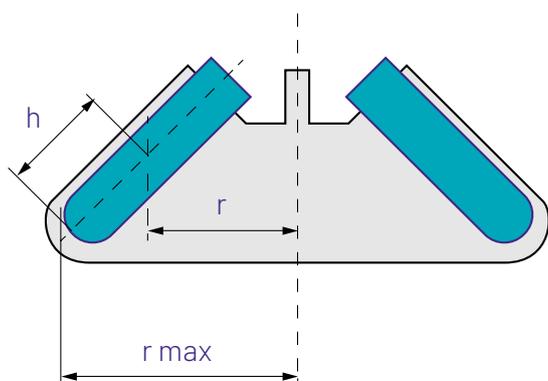
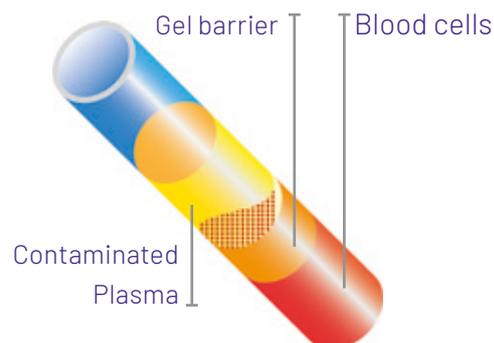
SWING OUT ROTORS (with variable angle)

During the centrifugation, the tubes turn into a perpendicular position with respect to the rotation axis of the rotor. Therefore, the distance and the time necessary for the sedimentation are higher, but the phases limits develop clearly and perpendicular. The swing out rotors are generally used to centrifuge a bigger quantity of samples at medium speed.



ANGLE ROTORS (with fixed angle)

The oblique angle of the tubes reduces the sedimentation distance, decreasing the necessary time for the separation of the phases, that are inclined with respect to the tube and less net. The angle rotors are generally used to centrifuge a smaller quantity of samples at high speed.



The simplified formula for the RCF is:

$$RCF = (n/1000)^2 \times r \times 11,18$$
 where n = speed (rpm) and r = ray in cm

CALCULATION OF THE CENTRIFUGAL FORCE

Generally, the performances of a centrifuge are indicated following the maximum achievable speed. However, the speed indicates approximately the real force which developed in the centrifuged sample and which generates the separation. This power expresses as Relative Centrifugation Force (RCF). Its value indicates the multiple of times that the force exceeds the acceleration caused from the gravity "g". Looking at the formula here on the left, the RCF is directly proportional to the ray of the rotor and linked to the square of the speed. This means that the RCF doubles if the ray doubles and quadruples if the speed doubles.

Therefore, the performances of the centrifuges should be compared on values expressed in RCF only.

CENTRIFUGES

NEYA 8 Basic

- Max load capacity: 4x175 ml
- Maximum speed: 6000 rpm
- Automatic rotor detection
- Control of the maximum speed of the rotor
- Safety speed limiter function
- Backlit colour LCD display



MAIN FEATURES

Ventilated centrifuge with **automatic rotor detection**, check of presence of accessories and of allowed max. speed.

Speed limiter for laboratory safety. Contemporary visualisation of all centrifugal parameters.

Low number of keys, adjustment handle with confirming function and guide for an extremely intuitive operativity.

Equipped with brushless motor, maintenance free and silent.

Programmable speed from 500 to 6000 rpm (subjected to the placed rotor) with step of 50 rpm. Centrifugation time from 00:30 to 99:50 (mm:ss) with increases in 10 seconds or constantly function. Acceleration and deceleration adjustable on 3 levels.

Automatic locking system of the lid with possibility to recover the tubes in case of electric power absence.

Imbalance detection system with automatic functioning stop.

The centrifuge follows the directives EN61010-1; EN61010-2-020; EN61326-1.

Compact sizes to optimize the space in laboratory

The room access height of only 27,5 cm makes the loading and unloading operation of the centrifuge easy.

Power supply: 220V, 50 Hz.

Max. noisiness: 55 dB

| Name | Max load | Max speed. | External dimensions (L x P x A) | Weight | p/n |
|--------------------------------|------------|------------|------------------------------------|--------|----------|
| NEYA 8 WITHOUT ROTOR | 4 x 175 ml | 6000 rpm | 45 x 59 x 33 cm | 40 Kg | 40100302 |

NEYA 10 Professional

- Maximum loading capacity: 4x175 ml
- Maximum speed: 6000 rpm
- Automatic rotor detection
- Max speed control
- Safety speed limiter function
- Backlit display multicolor LCD



MAIN FEATURES

Ventilated centrifuge with **automatic rotor detection**, check of presence of accessories and of allowed max. speed.

Speed limiter for laboratory safety. Contemporary visualisation of all centrifugal parameters.

Low number of keys, adjustment handle with confirming function and guide for an **extremely intuitive operativity.** Equipped with brushless motor, maintenance free and silent.

Programmable speed from 500 to 6000 rpm (subjected to the placed rotor) with step of 50 rpm. Centrifugation time from 00:30 to 99:50 (mm:ss) with increases in 10 seconds or constantly function.

Acceleration and deceleration adjustable on 3 levels.

Automatic locking system of the lid with possibility to recover the tubes in case of electric power absence.

Imbalance detection system with automatic functioning stop.

The centrifuge follows the directives **EN61010-1; EN61010-2-020; EN61326-1.**

Compact sizes to optimize the space in laboratory

The room access height of only 27,5 cm makes the **loading and unloading operation of the centrifuge easy.**

Power supply: 220V, 50 Hz.

Max. noisiness: 55 dB

NEYA 10 R

REFRIGERATED VERSION

Adjustable temperature from -10 °C to +40 °C (from +14 to +104 °F) with increases and decreases of 1 °C (or 1 °F).

"Precool" function for the fast cooling of the centrifuge

Power supply: 220V, 50 Hz.

Max. noisiness: 55 dB



| Name | Max load | Max speed | External dimensions (L x P x A) | Weight | p/n |
|-----------------------------------|------------|-----------|------------------------------------|--------|----------|
| NEYA 10 WITHOUT ROTOR | 4 x 175 ml | 6000 rpm | 45 x 59 x 33 cm | 40 Kg | 40100312 |
| NEYA 10 R WITHOUT ROTOR | 4 x 175 ml | 6000 rpm | 73 x 64 x 33 cm | 70 Kg | 40100332 |

NEYA 16 High Speed

- Maximum loading capacity:: 4x175 ml
- Maximum speed: 16000 rpm
- Automatic rotor detection
- Max speed control
- Safety speed limiter function
- Backlit display multicolor LCD



MAIN FEATURES

Ventilated or refrigerated centrifuge (CFC-free), with **automatic rotor detection**, check of presence of accessories and of allowed max. speed.

Speed limiter for laboratory safety. Contemporary visualisation of all centrifugal parameters.

Low number of keys, adjustment handle with confirming function and guide for an extremely intuitive operativity. Equipped with brushless motor, maintenance free and silent.

Programmable speed from 500 to 16000 rpm (subjected to the rotor placed) with step of 50 rpm.

RCF adjustable up to 21000 xg (subjected to the placed rotor).

Centrifugation time from 00:30 to 99:50 (mm:ss) with increases in 10 seconds or constantly function.

Acceleration and deceleration adjustable on 10 levels.

10 Programs with overwriting security system.

Centrifugal function SPIN.

Lighting and acoustic signal for after centrifugation.

Automatic locking system of the lid with possibility to recover the tubes in case of electric power absence.

Imbalance detection system with automatic functioning stop.

The centrifuge follows the directives **EN61010-1; EN61010-2-020; EN61326-1.**

Compact sizes to optimize the space in laboratory

The room access height of only 27,5 cm makes the **loading and unloading operation of the centrifuge easy.**

Max. noisiness: 55 dB

Power supply: 220V, 50 Hz.

Warranty: 24 months

NEYA 16 R

REFRIGERATED VERSION

Adjustable temperature from -10 °C to +40 °C (from +14 to +104 °F) with increases and decreases of 1 °C (or 1°F).

“Precool” function for the fast cooling of the centrifuge.



| Name | Max load | Max speed | External dimensions (L x P x A) | Weight | p/n |
|----------------------------------|------------|-----------|------------------------------------|--------|----------|
| NEYA 16 WITHOUT ROTOR | 4 x 175 ml | 16000 rpm | 45 x 59 x 33 cm | 40 Kg | 40100322 |
| NEYA 16R WITHOUT ROTOR | 4 x 175 ml | 16000 rpm | 73 x 64 x 33 cm | 70 Kg | 40100342 |

SWING OUT ROTOR

| Nome | Description | p/n |
|----------------------------------|---|----------|
| SB 4-175 KIT | Kit includes : Swing out rotor S 4-175 , maximum capacity 4 x 175 ml. Maximum speed 4.500rpm, RCF max. 3600xg. 4 buckets B 175 4 Biosafe lids L 175 | 40100502 |
| L 175 SPARE PART COVER | Biosafe lid for bucket B 175. | 40101522 |
| B 175 SPARE PART GLASS | Aluminium bucket of 175 ml for rotor S 4-175. | 40101512 |



HOW TO CHOOSE THE INSERT CONSIDERING THE TUBE

| | | | |
|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|
| I 12-2 Ø ≤ 10,6 mm H ≤ 42 mm | I 7-5/7 Ø ≤ 13 mm H ≤ 116 mm | I 7-10 Ø ≤ 16 mm H ≤ 114 mm | I 4-15F Ø ≤ 17 mm H ≤ 120 mm |
| I 4-15R Ø ≤ 17 mm H ≤ 110 mm | I 1-50 SF Ø ≤ 29 mm H ≤ 116 mm | I 1-50R Ø ≤ 30 mm H ≤ 110 mm | I 1-100 Ø ≤ 46 mm H ≤ 102 mm |

INSERTS FOR BUCKETS B 175 – KIT OF 4 PIECES - Tubes not included

| Name | Description | Max Tubes | p/n |
|------------------|---|-----------|----------|
| I 12-2 | Kit of inserts (12 tubes each) of 1,5-2 ml type Eppendorf® | 48 | 40100602 |
| I 7-5/7 | Kit of inserts (7 tubes each) from levy Vacutainer® of 5-7 ml. (Ø x L) 13x75 and 13x100 mm. | 28 | 40100612 |
| I 7-10 | Kit of inserts (7 tubes each) from levy Vacutainer® of 10 ml. (Ø x L) 16x100 mm | 28 | 40100622 |
| I 4-15 F | Kit of inserts (4 tubes each) with conical bottom type Falcon® of 15 ml. (Ø x L) 17x120 mm | 16 | 40100632 |
| I 4-15 R | Kit of inserts (4 tubes each) with round bottom of 15 ml (Ø x L) 17x110 mm | 16 | 40100642 |
| I 1-50 SF | Kit of inserts (1 tube each) with conical bottom type Falcon® of 50 ml (Ø x L) 29x116 mm. The insert is suitable with conical bottomed self-standing tubes. | 4 | 40100682 |
| I 1-50 R | Kit of inserts (1 tube each) with round bottomed of 50 ml. (Ø x L) 30x110 mm | 4 | 40100662 |
| I 1-100 | Kit of inserts (1 tube each) with round bottomed of 100 ml. (Ø x L) 46x102 mm | 4 | 40100672 |

TUBES

| Name | Description | p/n |
|---------------|---|----------|
| T 15F | Plastic tube type Falcon® of 15 ml (Ø x L) 17 x 120 mm | 40003402 |
| T 15G | Glass round bottomed tube of 15 ml (Ø x L) 17 x 110 mm (max. speed 3000 rpm) | 40003412 |
| T 15P | Plastic round bottomed tube of 15 ml (Ø x L) 17 x 102 mm | 40003422 |
| T 50F | Plastic tube type Falcon® of 50 ml (Ø x L) 29 x 116 mm | 40003432 |
| T 50G | Glass round bottomed tube of 50 ml (Ø x L) 30 x 110 mm (max. speed 3000 rpm) | 40003442 |
| T 50P | Plastic round bottomed tube of 50 ml (Ø x L) 30 x 100 mm | 40003452 |
| T 100G | Glass round bottomed tube of 100 ml (Ø x L) 46 x 102 mm (max. speed 3000 rpm) | 40003462 |
| T 100P | Plastic round bottomed tube of 100 ml (Ø x L) 46 x 100 mm | 40003472 |
| T 175 | Plastic bottle with round bottom of 175 ml with screw lid (Ø x L) 57 x 97 mm | 40003492 |

SWING OUT ROTOR

| Name | Description | p/n |
|-------------------------------------|--|----------|
| S 4-175 ONLY ROTOR | Swing out rotor maximum capacity 4 x 175 ml for aluminium carrier and buckets. Max. speed 4.500rpm, RCF max. 3.600 xg. | 40101502 |
| S 6-96 MP PLATES INCLUDED | Swing out rotor for microplates, maximum capacity of 6 plates of 96 wells. Maximum speed 3.200rpm, RCF max. 1.950 xg. Supplied with 2 trays. | 40100522 |

S 4-175
ONLY ROTOR



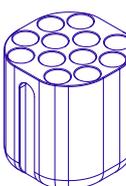
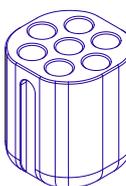
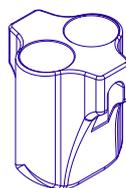
S 6-96 MP
PLATES INCLUDED



CARRIERS FOR SWING ROTOR S 4-175

MINIMUM ORDER QUANTITY 4 PIECES

| Name | Description | Max n° of tubes | p/n |
|-----------------|---|-----------------|----------|
| B 2-50 F | Carrier for 2 conical bottomed tube type Falcon® of 50 ml (Ø x L) 29x116 mm. | 8 | 40101532 |
| B 2-50 R | Carrier for 2 round bottomed tubes of 50 ml (Ø x L) 30x110 mm . | 8 | 40101582 |
| B 7-15 F | Carrier for 7 conical bottomed tubes type Falcon® of 15 ml (Ø x L) 17x120 mm. | 28 | 40101542 |
| B 7-15 R | Carrier for 7 round bottomed tubes of 15 ml (Ø x L) 17x110 mm. | 28 | 40101592 |
| B 12-10 | Carrier for 12 collection tubes Vacutainer® of 10 ml (Ø x L) 16x110 mm. | 48 | 40101552 |
| B 14-5/7 | Carrier for 14 collection tubes Vacutainer® of 5-7 ml (Ø x L) 13x100 mm. | 56 | 40101562 |
| B 16-5/7 | Carrier for 16 collection tubes Vacutainer® of 5-7 ml (Ø x L) 13x75 mm. | 64 | 40101572 |



HIGH CAPACITY FIXED ROTOR

| Name | Description | Max. speed. | RCF max (xg) | n° of tubes max | p/n |
|------------------|--|-------------|-----------------|--------------------|----------|
| A 32-15 N |  37° fixed angle rotor for 15 ml tubes | 5200 | 4020 | 32 | 40100802 |
| A 8-50 |  37° fixed angle rotor for 50 ml tubes | 6000 | 4800 | 8 | 40100812 |
| A 6-100 |  37° fixed angle rotor for 100 ml tubes | 5000 | 3330 | 6 | 40100822 |

All the rotors are supplied without buckets.

BUCKETS- FOR HIGH CAPACITY ROTORS - TUBE INCLUDED

| For rotor | Name | Description | p/n |
|------------------------|----------------|--|----------|
| A 32-15 MIN. 32 PCS | B 15 F | For conical bottomed tubes of 15 ml. Complete with Falcon® tube of 15 ml. (Ø x L) 17x120 mm | 40101002 |
| | B 15 G | For round bottomed tubes of 15 ml. Complete with glass tube of 15 ml. (Ø x L) 17x110 mm | 40101012 |
| | B 15 P | For round bottomed tubes of 15 ml. Complete with plastic tube of 15 ml. (Ø x L) 17x102 mm | 40101022 |
| A 6-50 MIN. 6 PCS | B 50 XF | for conical bottomed tubes of 50 ml. Complete with Falcon® tube of 50 ml (Ø x L) 29x116 mm | 40101032 |
| | B 50 XG | for round bottomed tube of 50 ml. Complete with glass tube of 50 ml (Ø x L) 30x110 mm | 40101042 |
| A 8-50 MIN. 8 PCS | B 50 XP | for round bottomed tubes of 50 ml. Complete with plastic tube of 50 ml. (Ø x L) 30x100 mm | 40101052 |
| A 6-100 MIN. 6 PCS | B 100 G | for round bottomed tubes of 100 ml. Complete with glass tube of 100 ml. (Ø x L) 46x102 mm | 40101092 |
| | B 100 P | for round bottomed tubes of 100 ml. Complete with plastic tube of 100 ml. (Ø x L) 46x110 mm | 40101102 |

HIGH SPEED ROTOR

FOR NEYA 16 AND NEYA 16 R

| Name | Description | Max speed (rpm) | RCF max (xg) | n° of tubes max | p/n |
|-----------------------------|---|-----------------|--------------|-----------------|----------|
| A 6-50 HIGH SPEED |  34° fixed angle rotor for 50 ml tubes. With BIOSAFE lid It is supplied without buckets. | 9500 | 10050 | 6 | 40100862 |
| A 12-5 |  45° fixed angle rotor for 5 ml Eppendorf® tubes With BIOSAFE lid | 14000 | 20380 | 12 | 40100832 |
| A 24-2 |  45° Fixed angle rotor for 1,5-2 ml Eppendorf® tubes With BIOSAFE lid | 15000 | 21000 | 24 | 40100842 |
| A 36-05 |  37° fixed angle rotor for 0,5 ml Eppendorf® tubes With BIOSAFE lid | 15000 | 21.000 | 36 | 40100852 |
| PCR 4-8 |  45° fixed angle rotor for PCR strip of 8 tubes With BIOSAFE lid | 15000 | 21000 | 4 | 40100872 |

REDUCTORS – COMPLETE WITH BUCKETS – TUBE NOT INCLUDED

| Name | Description | p/n |
|--------------------|--|----------|
| RE 15-5/7 | Reductor for round bottomed tubes of 5/7 ml (Ø x L) 13x75 and 13x100 mm for rotor A32-15N | 40101292 |
| RE 50-15 F | Reductor for conical bottomed tubes type Falcon® of 15 ml. (Ø x L) 17x120 mm for rotor A 8-50 e A 6-50 | 40101322 |
| RE 50-15 R | Reductor for round bottomed tubes of 15ml (Ø x L) 17x110 mm for rotor A 8-50 and A 6-50 | 40101332 |
| RE 50-10 | Reductor for round bottomed tubes of 10 ml (Ø x L) 16x100 mm for rotor A 8-50 and A 6-50 | 40101342 |
| RE 100-50 F | Reductor for conical bottomed tubes of 50 ml type Falcon®. (Ø x L) 29x116 mm for rotor A 6-100 | 40101352 |
| RE 100-50 R | Reductor for round bottomed tubes of 50 ml (Ø x L) 30x110 mm for rotor A 6-100 | 40101362 |
| RE 100-15 F | Reductor for conical bottomed tubes of 15 ml type Falcon®. (Ø x L) 17x120 mm for rotor A 6-100 | 40101372 |
| RE 100-15 R | Reductor for round bottomed tubes of 15 ml (Ø x L) 17x110 mm for rotor A 6-100 | 40101382 |

REDUCTOR – TUBE NOT INCLUDED

| Name | Description | p/n |
|-----------------|---|----------|
| RE 2-05 | Reductor for microtubes of 0,5 ml for rotor A 24-2. Kit of 24 pieces | 40101262 |
| RE 2-02 | Reductor for microtubes of 0,2 ml for rotor A 24-2. Kit of 24 pieces. | 40101272 |
| RE 05-02 | Reductor for microtubes 0,2 ml for rotor A 36-05. Kit of 36 pieces | 40101282 |

CENTRIFUGES

R-5S +

- Max load capacity 12X15 ml
- Max speed 5250 rpm
- Max RCF 4280xg
- Timer from 1 to 60 min or continuous

MAIN FEATURES

Ventilated centrifuge with LCD display to set the speed and time of centrifugation.

Low number of keys, adjustment handle with confirming function and guide for an extremely intuitive operativity.

Equipped with brushless motor, maintenance free and silent.

Programmable speed from 500 to 5250 rpm with step of 50 rpm.
Centrifugation time from 1 to 99 minutes with increases in 1 minute or constantly function.

Lower breaking time thanks to the function "BREAK"

Imbalance detection system with automatic functioning stop.

Automatic locking system of the lid with possibility to recover the tubes in case of electric power absence.

Compact sizes to optimize the space in laboratory.

The centrifuge follows the directives EN61010-1; EN61010-2-10

Power supply: 220V, 50 Hz.

Max. noisiness: 53 dB

Supplied with:

fixed angle aluminium rotor R-83A, 12x15 ml, steel buckets B 15-P and plastic round bottomed tubes T 15-P of 15 ml 17x100 mm.



R-83 A

p/n

| Name | Load capacity | Max speed | External dimensions (L x P x A) | Weight | p/n |
|-----------------------------|---------------|-----------|------------------------------------|--------|----------|
| R-5S + CENTRIFUGE | 12 X 15 ml | 5250 rpm | 33 x 37 x 28 cm | 24 Kg | 40000022 |

ACCESSORIES - FOR R-5S+

| Name | Description | p/n |
|---------------------------|--|----------|
| R-83 A ROTOR | Replacement rotor complete with tubes and buckets B 15-P | 40000272 |
| B 15-P CANISTER | Replacement metal bucket complete with plastic tube of 15 ml | 40101022 |
| B 15-F CANISTER | Spare part metal bucket complete with Falcon® tube of 15ml Max. 6 buckets to be placed into the internal spaces | 40101002 |
| RE 15-5/7 | Reductor for round bottomed tubes of 5/7 ml (Ø x L) 13x75 and 13x100 mm for rotor R 83-A | 40101292 |

MULTISPIN 12 - ULTRACOMPACT

- Max load capacity 6 X2 ml
- Max speed 12000 rpm
- Timer from 30 sec to 99 min



MAIN FEATURES

Ultra-compact minicentrifuge, equipped with silent induction motor and maintenance free; speed: adjustable from 1000 to 12,000 rpm with steps of 1000 in 1000 rpm.

Power supply: 220V, 50-60 Hz. Max. consumption: 30 W.

Max. noisiness: 45 dB.

Supplied with 2 rotors:

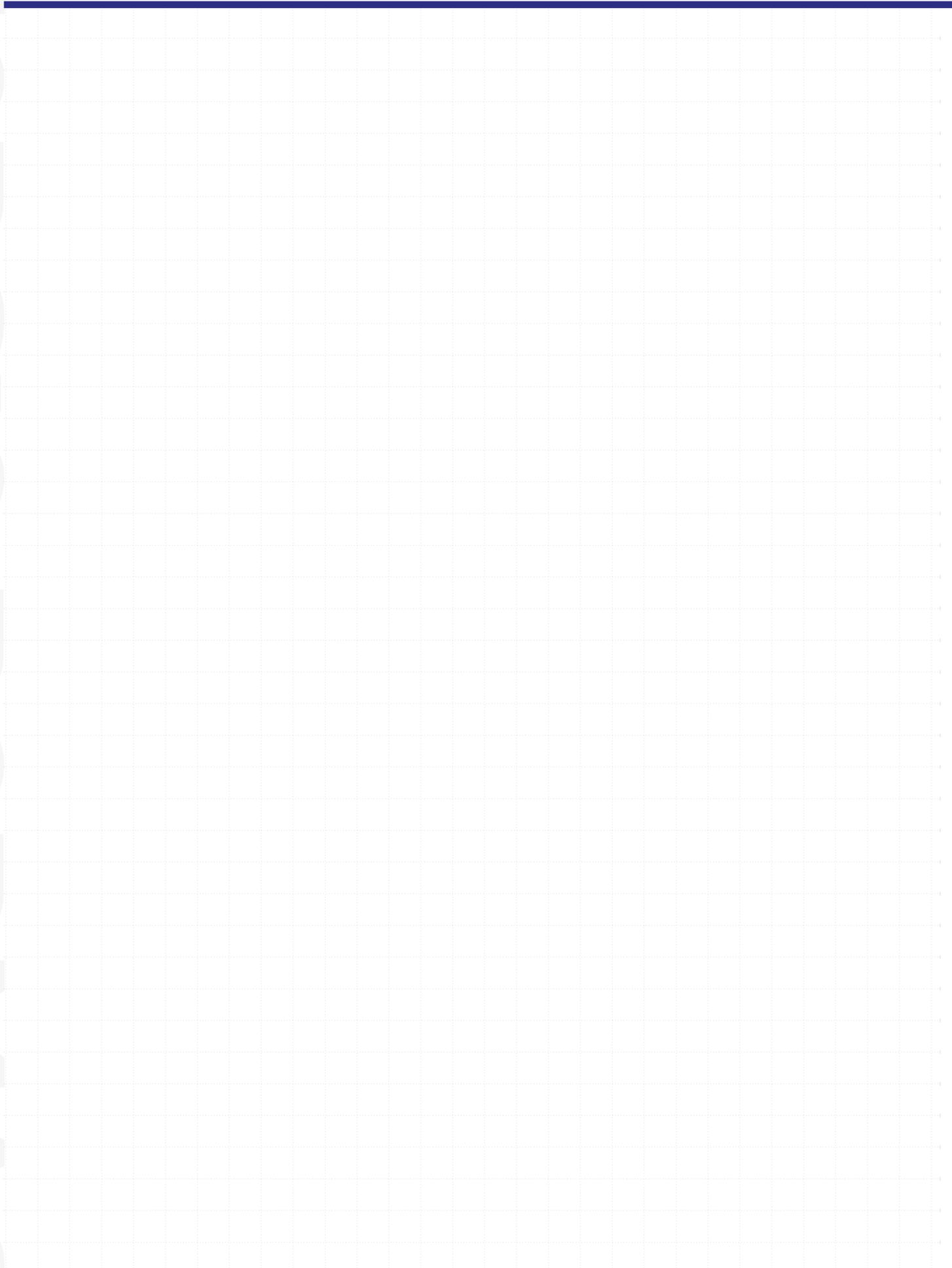
model A 6-2 able to hold simultaneously no. 6 tubes of 2 ml, no. 6 tubes of 0,5 ml, nr. 6 tubes of 0,2 ml;

model PCR 2-8 for no. 2 strips of 8 PCD tubes of 0,2 ml.

| Name | Load capacity | Max speed | External dimensions (L x P x A) | Weight | p/n |
|---------------------------------------|---------------|-----------|------------------------------------|--------|----------|
| MULTISPIN 12 MINICENTRIFUGE | 6 x 2 ml | 12000 rpm | 122 x 176 x 196 mm. | 1,5 Kg | 40005012 |



NOTE



CENTRIFUGES

STIRRERS

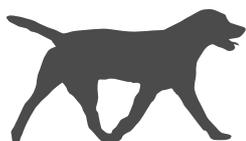
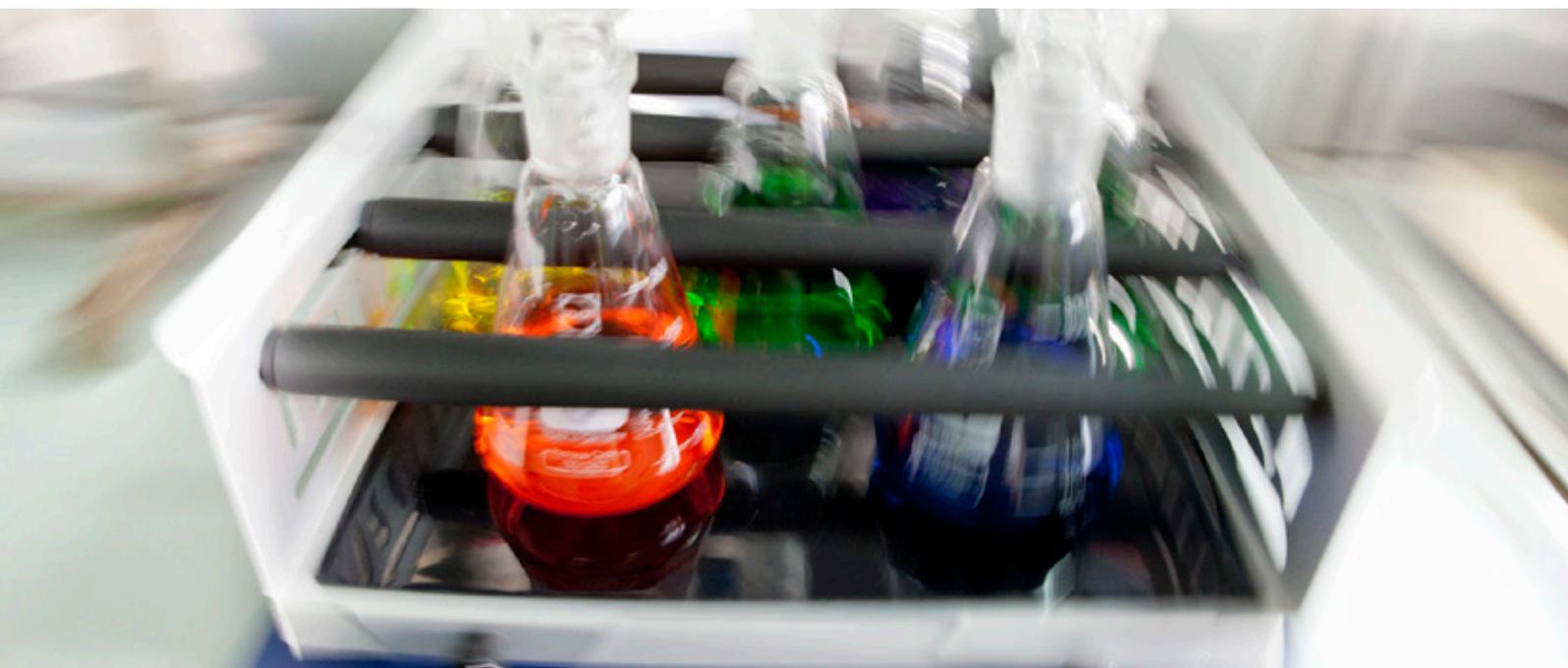
ARGO LAB

WARRANTY
2
YEARS



★ ★ ★ ★
EU ★ ★ ★ ★
Designed

ISO 9001
CERTIFIED



All these instruments have passed the rigorous quality and reliability tests that Giorgio Bormac prepares for each new product.

The manufacturer, ISO 9001 certified with registered office in P.R.C., has accepted to make the improvement changes requested by us.

With these premises we decided to use our brand : **ARGO LAB**.

Argo is the name of our dog, a black Labrador mongrel, which with its strength and loyalty brightens up our days in the office and at home.

This is why we want these tools to become reliable companions for your laboratory.

MS-D

AVAILABLE FROM MAY

Digital magnetic stirrer

LED display with continuous indication of the stirring speed.

Plate diam. 135 mm in Nylon + GF for excellent chemical resistance.

Maintenance-free induction motor. Degree of protection: IP 42.

Dimensions (W x L x H): 260x150x80mm..



| Name | Volume | Speed | p/n |
|-----------------|--------|--------------|----------|
| NEW MS-D | 3 L | 0...1500 rpm | 22002003 |

M2-A

MAIN FEATURES

Analog magnetic stirrer with heating plate.

Stainless steel plate with diameter of 135 mm.

Induction motor without maintenance. Degree of protection: IP 42.

Dimensions (W x H x D): 280x160x65mm.



| Name | Volume | Speed | T Max heating | Power heating | p/n |
|------|--------|--------------|---------------|---------------|----------|
| M2-A | 20 L | 0...1500 rpm | 340 °C | 500 W | 22002013 |

M2-D Pro

MAIN FEATURES

Digital magnetic stirrer microprocessor with heating plate.

Multifunction LCD display with continuous indication of speed and temperature.

Control and maximum temperature protection with visual alarm on the display, "Stirring" function control. Stainless steel plate with diameter of 135 mm.

Input for PT 1000 external temperature sensor, RS 232 interface for remote control.

Induction motor without maintenance.

Degree of protection: IP 42. Dimensions (W x H x D): 280x160x65mm.



| Name | Volume | Speed | T Max heating | Power heating | p/n |
|----------|--------|--------------|---------------|---------------|----------|
| M2-D Pro | 20 L | 0...1500 rpm | 340 °C | 500 W | 22002063 |

M3-D

MAIN FEATURES

Digital magnetic stirrer microprocessor with ceramic glass plate.

LED display with continuous indication of temperature.

Accuracy ± 1 °C with internal sensor, $\pm 0,2$ °C with external sensor.

Plate size 184 x 184 mm. External sensor input for temperature PT 1000.

Induction motor without maintenance.

Degree of protection: IP 42. Dimensions (L x W x H): 215x360x112mm.



| Name | Volume | Speed | T Max heating | Power heating | p/n |
|------|--------|--------------|---------------|---------------|----------|
| M3-D | 10 L | 0...1500 rpm | 550 °C | 1000 W | 22003013 |

ACCESSORIES FOR MAGNETIC STIRRERS

| Description | | p/n |
|---|--|----------|
| Adjustable support for PT 1000 |  | 22002523 |
| PT 1000 probe, length 230 mm for stirrer M2-D Pro, M3-D |  | 22002513 |
| Reaction block for 100 ml round bottom flask |  | 22002663 |
| Reaction block for 250 ml round bottom flask |  | 22002673 |
| Reaction block for 500 ml round bottom flask |  | 22002683 |
| Black quarter pie 4 holes 40ml Ø 28 mm |  | 22002623 |
| Blue quarter pie 4 holes 30ml Ø 28 mm |  | 22002613 |
| Violet quarter pie 4 holes 20ml |  | 22002603 |
| Gold quarter pie 4 holes 16ml Ø 21,6 mm |  | 22002643 |
| Green quarter pie 6 holes 8ml Ø 17,8 mm |  | 22002633 |
| Red quarter pie 11 holes 4ml Ø 15,2 mm |  | 22002593 |
| Blue carrying plate for quarter pies |  | 22002583 |
| Plastic protective cover for stirrer M2-A, M2-D Pro |  | 22002533 |



AM 20-D

MAIN FEATURES

- Mechanical shaft stirrer with LED display.
- Safe stop function with indicator light for overheating motor.
- Upper passage hole for stirring shafts.
- Supplied with automatic spindle (Ø shaft max 10 mm).
- Protection degree IP 42. Power supply 220V. Warranty: 24 months.

Supplied without universal reaction block (check part no. 22005153).



| Name | Stir Volume | Speed | Power | p/n |
|---------|-------------|----------------|-------|----------|
| AM 20-D | 20 L | 50...2.200 rpm | 50 W | 22005013 |

AM 40-D Pro

MAIN FEATURES

- Mechanical shaft stirrer with LCD display.
- Effort control with speed auto-adjustment.
- Torque trend display.
- Safe stop function with indicator light for overheating motor.
- Upper passage hole for stirring shafts.
- Supplied with automatic spindle (Ø shaft max 10 mm).
- Protection degree IP 42. Power supply 220V.

Supplied without universal reaction block (check part no. 22005153).



| Name | Stir Volume | Speed | Power | p/n |
|-------------|-------------|----------------|-------|----------|
| AM 40-D PRO | 40 L | 50...2.200 rpm | 100 W | 22005043 |

ACCESSORIES for AM 20-D and AM 40-D PRO

| Description | p/n |
|---|----------|
| Universal plate stand for mechanical shakers. Supplied with clamp. Plate dimensions 200 x 315 mm, length shaft mm 800, diameter mm 18. | 22005153 |
| TYPE 1: Stirring shaft with floating blade. Shaft length 400 mm, width 89 mm | 22005193 |
| TYPE 2: Stirring shaft with fixed blade. Shaft length 400 mm, width 60 mm | 22005173 |
| TYPE 3: Stirring shaft with propeller blade. Shaft length 400 mm, width 50 mm | 22005163 |
| TYPE 4: Stirring shaft with 3 holes blade. Shaft length 400 mm, width 68 mm | 22005183 |

Universal plate



Type 1



Type 2



Type 3



Type 4



MIX

MAIN FEATURES

Mixer for test tubes, speed regulation from 0... 2,500 rpm.

Working at the touch or continuously.

Orbital shaking movement.

Eccentric motor with oil-free gears.

Degree of protection IP 21.

Dimensions (L x W x H): 127 x 160 x 130 mm. Weight: 3.5 kg.

220V power supply.



| Name | Description | p/n |
|------|--------------|----------|
| MIX | Vortex mixer | 22008013 |



ArgoLab stirrer brochures are available on our website www.argo-lab.com, in PDF format.



SKO-D XL

MAIN FEATURES

Shaking stirrer.

Double LCD display with indication of speed and time.

Stirring time adjustment from 1min. ...20 hours or continuous.

Exit RS 232 for remote control.

Maintenance-free brushless DC motor.

Plate dimensions: 320 x 320mm.

Overall dimensions (L x P x H): 370 x 420 x 100 mm. Weight: 13,5 Kg.

Protection degree IP 21. Power supply 220V.



Supplied without any support.

| Name | Movement | Max load | Speed | p/n |
|----------------------------|--------------------------------------|----------|-------------------|----------|
| SKO-D XL ORBITAL | Orbital clockwise and counterwise | 7,5 Kg | 100...500 hit/min | 22006013 |
| SKO-D XL LINEAR | Linear amplitude 10 mm | 7,5 Kg | 100...350 hit/min | 22006033 |
| SKO-D XL 3D | 3D clockwise and counterwise | 5,0 Kg | 10...70 hit/min | 22006023 |

ACCESSORIES

| Description | p/n |
|---|----------|
| Support with anti-slip film | 22006223 |
| Universal support with 4 adjustable rollers | 22006233 |
| Additional bars for universal support | 22006553 |
| Drilled support for clips fixing | 22006243 |
| Fixing clip for flask volume 25 ml for fixing clip attachment. Max 28 clips | 22006453 |
| Fixing clip for flask volume 50 ml for fixing clip attachment. Max 16 clips | 22006463 |
| Fixing clip for flask volume 100 ml for fixing clip attachment. Max 16 clips | 22006473 |
| Fixing clip for flask volume 200/250 ml for fixing clip attachment. Max 9 clips | 22006483 |
| Fixing clip for flask volume 500 ml for fixing clip attachment. Max 9 clips | 22006493 |



Dish attachment with non-slip mat



Universal attachment with 4 bars



Fixing clip attachment



SKI Shaking Incubators

Benchtop instrument that combines **stirring and thermostating** functions in a single instrument used to mix liquids and to incubate biological cultures.

The microprocessor control guarantees **constant and optimal control of the temperature inside the chamber**, the heating (and cooling in the SKI 8-R refrigerated model) pre-chamber, together with the forced air circulation, guarantee the **optimal temperature distribution throughout the useful work area**.

The **easy and intuitive digital display** allows the orbital shaking speed to be adjusted with an increase of 1 rpm (from 40 to 300 rpm), the temperature of use with sensitivity to the tenth of a degree (from + 5 ° C from room temperature up to + 60 ° C for model SKI 4 and from + 4 ° C up to + 60 ° C of the refrigerated model SKI 8-R) and the use time with sensitivity per minute (from 1 min up to 99 hours and 59 min or in a continuous cycle).

The function with progressive increase of the agitation up to the maximum speed the safety of the levels.

The **various platforms available** allow the maximum versatility of the ArgoLab orbital shaking incubators in its SKI 4 and SKI 8-R models.

The SKI 4 and SKI 8-R instruments are supplied as standard with a flexible spring platform capable of housing different types of flasks, beakers and test tubes with different capacities; other platforms are also available: perforated for clips, with anti-slip film with rubber bands and universal with rollers.



APPLICATIONS

- Bacterial cultures and yeasts ■
- Solubility studies ■
- Extraction procedures ■
- Mixing ■
- Colors and discolorations ■
- Hybridization ■
- Diagnostic tests ■
- Washing procedures ■
- Protein production ■
- Plasma production ■
- Biological shaker ■



Universal platform with springs support



Keyboard

SKI 4

- **Stirring speed:** 40...300 rpm
- **Stirring time:** 1...9999 min (or continuous)
- **Safety class 3.1** (DIN 12880)

MAIN FEATURES

Shaking incubator with orbital rotating movement.

Backlit wide LCD display with simultaneous viewing of the real and set temperature and of the stirring speed and time.

Temperature range adjustable from 37 °C ± 0,1 °C, temperature uniformity in space at 37 °C ± 0,5 °C.

Maximum stirring width 20 mm.

The instrument can be used as "incubator" (stirring = 0) and "shaking" mode only (Incubation = ambient temperature).

Universal platform with springs support, useful dimensions 320 x 320 mm suitable for flasks, blocks, pipes and boxes with different dimensions. Supplied as standard.

Possibility to place a drilled support for flasks/blocks clips holder.

A wide 8 mm thick plexiglass dome for optimum viewing of samples, without loss of heat, equipped with gas springs for easy opening.

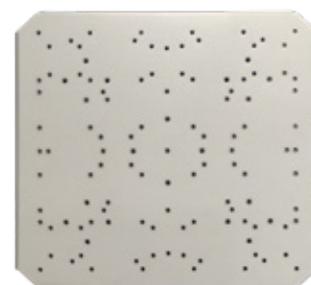
Shaking and heating block system for dome opening with automatic restart after closing.

Safety systems for overheating protection and safety variable flow expansion thermostat.

Safety class 3.1 (DIN 12880).

Maintenance-free induction motor. Overall dimensions (L x W x H): 500 x 610 x 470) mm. Weight: 40 Kg. Power supply: 220V, nominal power 500 W.

Equipped with universal support and platform.



Perforated support for clips

| Name | Max capacity | Temperature range | Plate dimensions | p/n |
|--------------|--------------|-------------------|------------------|----------|
| SKI 4 | 4 L | + 5 Ta... + 60 °C | 320 x 320mm | 41102012 |

ACCESSORIES

| Description | p/n |
|---|----------|
| Platform with no-slip mat | 41102052 |
| Universal platform with nr. 4 adjustable bars | 41102042 |
| Additional bar for universal platform | 41102062 |
| Holed platform for clips | 41102112 |
| Spring clips for 100 ml flasks for holed platform SKI 4. Max 23 clips | 41102132 |
| Spring clips for 200 / 250 ml flasks for holed platform SKI 4. Max 13 clips | 41102142 |
| Spring clips for 500 ml flasks for holed platform SKI 4. Max 8 clips | 41102152 |
| Spring clips for 1000 ml flasks for holed platform SKI 4. Max 4 clips | 41102162 |
| Spring clips for 2000 ml flasks for holed platform SKI 4. Max 1 clips | 41102172 |

SKI 8 R

- **Stirring speed:** 40...300 rpm
- **Stirring time:** 1...99:59 min (or continuous)
- **Safety class 3.1 (DIN 12880)**

FEATURES

Refrigerated biological incubator with orbital shaking, in ventilated (SKI 4) or refrigerated (SKI 8R) version.

Large backlit LCD display with simultaneous indication of set and actual temperature, stirring speed and time.

Temperature variation over time at 37 °C by ± 0.1 °C, temperature uniformity in space at 37 °C by ± 0.5 °C.

Maximum stirring width of 20 mm.

The instrument can independently manage agitation and temperature.

Universal platform with spring support useful dimensions 450 x 450 mm suitable for housing flasks, flasks, test tubes and containers of different sizes and shapes, supplied as standard.

Possibility to house perforated support for flask / flask holder clips.

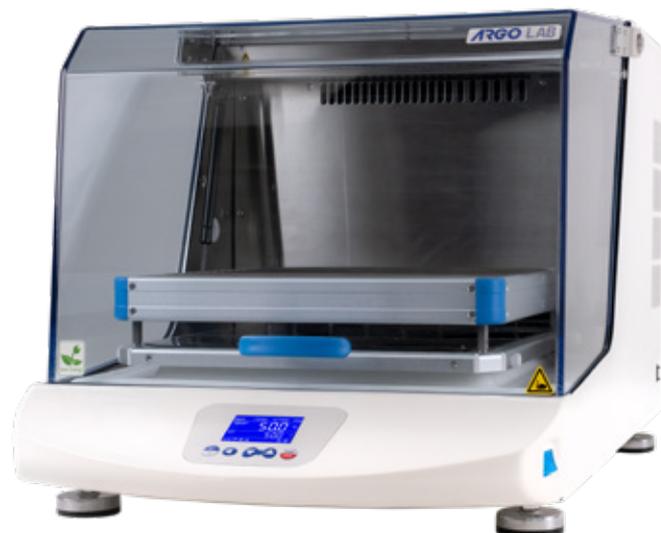
Large 8 mm thick plexiglass dome for an optimal view of the samples without heat loss, equipped with gas springs to facilitate opening.

Shaking and heating blocking system for dome opening with automatic restart after closing.

Safety systems for overheating protection and safety thermostat. Safety class 3.1 (DIN 12880).

Maintenance free induction motor. Power supply 220V, nominal power 500 W.

Supplied with universal support and platform.



| Name | Max capacity | Temperature range | Plate dimensions | p/n |
|--------------------|--------------|-------------------|------------------|----------|
| NEW SKI 8 R | 8 L | + 4 ... + 60 °C | 450 x 450 mm | 41102032 |

ACCESSORIES

| Description | p/n |
|---|----------|
| NEW Universal platform with nr. 4 adjustable bars for SKI 8 R | 41102072 |
| NEW Support with anti-slip film (fixing bands included) for SKI 8 R | 41102082 |
| NEW Perforated support for fixing clips for SKI 8 R | 41102122 |
| Spring clips for 100 ml flasks for holed platform SKI 8 R. Max 36 clips | 41102132 |
| Spring clips for 200 / 250 ml flasks for holed platform SKI 8 R. Max 18 clips | 41102142 |
| Spring clips for 500 ml flasks for holed platform SKI 8 R. Max 16 clips | 41102152 |
| Spring clips for 1000 ml flasks for holed platform SKI 8 R Max 9 clips | 41102162 |
| Spring clips for 2000 ml flasks for holed platform SKI 8 R. Max 4 clips | 41102172 |

ARGO FILLER 3

Battery pipette filler, compatible with most of the plastic and glass pipettes from 1 to 100 ml, volumetric or graduated.

Exceptional aspiration and dispensing control thanks to compact and light design.

Ergonomic design of the handle providing easy usability.

Eight different speeds of selection and large LCD display showing low battery warning.

The knurled handle, the ambidextrous design, the concave buttons and an easy control assure an easy and comfortable use of the operator's hands for many hours.

The fully autoclavable mouth includes a silicone adapter and a 0,45 µm hydrophobic membrane filter.

The kit includes the benchtop stand and a wall-mounted holder, a power supply for the rechargeable batteries and nr. 1 filter, as spare part.



| Name | Description | p/n |
|--|--|----------|
| ARGO FILLER 3 | Pipette filler | 15100053 |
| MEMBRANE FILTER SPARE PARTS | Membrane filters, hydrophobic 0,45µm. Kit of 10 pieces | 15100573 |

OZ - OZONE GENERATORS

High power portable air / air Argolab ozonizers for home and professional use, equipped with multifunction digital timer, for daily/weekly programs.

Ozone guarantee the natural inactivation of viruses, bacteria, mites, molds, spores, fungi, parasites and bad smells thanks to his hyper-oxidizing capacity.

Ozone react in a short time, returning O₂ without leaving traces of toxins.



Rapid test can quickly detect protein residues after the ozone treatment.

It's an easy way to monitor the cleanliness of surfaces.

Just sample the surface and release the reagent :

it will change colour in case of protein residues.

- Fast results (10 minutes)
- Easy to use
- Easy to understand

Argolab ozone generators are supplied with 2 quick tests.



| Name | Ozono production | Operation Area | Weight | Dimensions (LxWxH) | p/n |
|-----------------------------|---------------------------------|------------------------|--------|--------------------|----------|
| OZ 10 | 10 g/h | 150 m ³ / h | 4 Kg | 380 x 170 x 260 mm | 41400103 |
| OZ 30 | 30 g/h | 230 m ³ /h | 4 Kg | 380 x 170 x 260 mm | 41400203 |
| PROTEIN CHECKING KIT | Rapid protein test for surfaces | | | 50 test | 41401003 |
| | | | | 100 test | 41401013 |

THERMOSTATATION

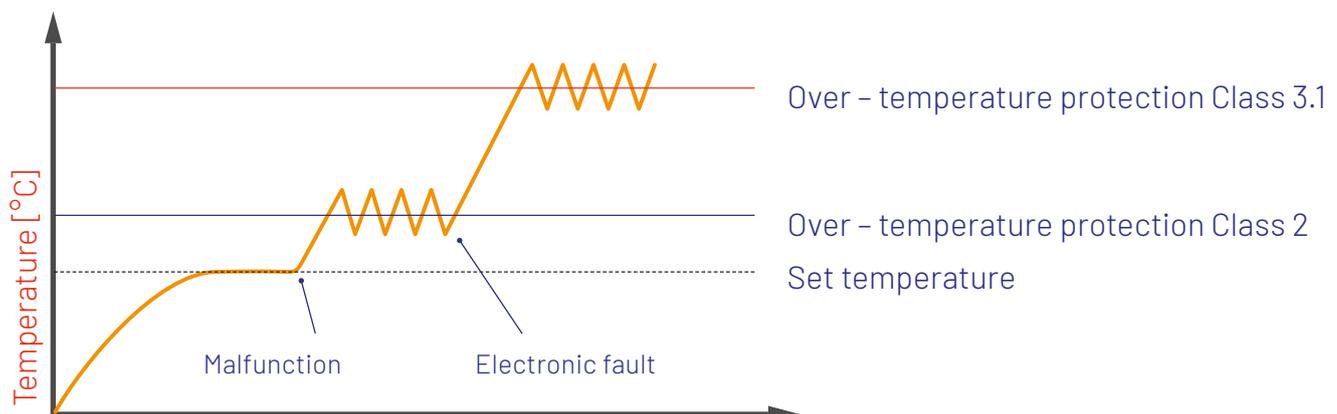


SAFETY CLASS 3.1

(STANDARD DIN 12880)

Double over-temperature protection: in case of exceeding in set temperature, an electronic and an electromechanical control, both adjustable by the operator, intervene in succession. Even in the event of an unlikely total breakdown, the second protection is able to interrupt quickly the power of the heating element, being constituted by a fluid expansion switch and a temperature probe, which are totally independent from the electronics. All Argolab instruments have a degree of protection of Class 2 at least.

The ovens and other instruments with more powerful heating elements are in Safety Class 3.1.



Super

PROJECT



All on board

Touch screen colour display for the selection of different functions. All parameters on a single screen: temperature, fan speed, time, program number and step, USB drive, date and time.



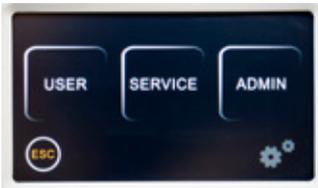
Easy to use

Easy and intuitive setting of all working parameters thanks to easy-to-understand icons and symbols. The capacitive display guarantees touch sensitivity and precision, even when wearing gloves.



Programs

Professional controller equipped with 8 storable programs with 8 steps each and an additional basic program (PROG 0) with single step. Simple programming of all working steps in a single screen.



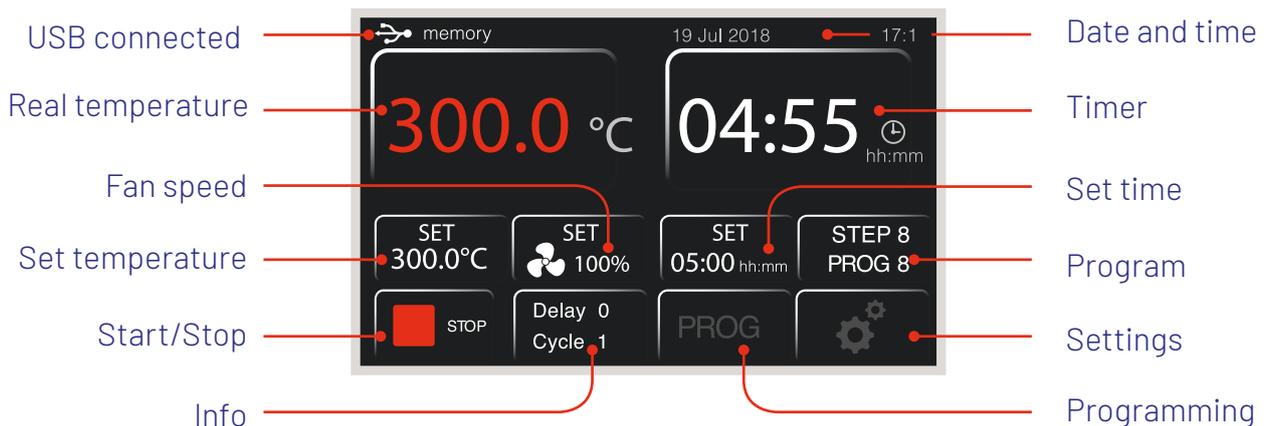
Safety of use

Setting menu with 3 access levels: no. 1 free and no. 2 protected by password in order to avoid accidental changes on the "sensitive" machine's parameters.



Recording and downloading data

The work cycles are automatically stored inside the instrument, always downloadable thanks to the USB port. With USB drive inserted, the recording takes place without capacity limits.



SERIE *Plus*



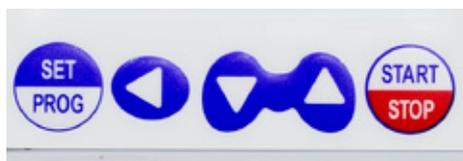
All in one

Backlit LCD display with all parameters in one screen: real temperature, set temperature, fan speed and running program



Intuitive reading

Easy reading of the most important parameters, thanks to the clear and logical distribution of numerical values, symbols and user-friendly icons.



Easy to use

The limited number of keys and setting steps ensures an extremely intuitive and fast operability



TCN SERIE *Super*

- Working range: +5 °C RT... +300 °C
- Colour touchscreen display
- 8 storable programs with 8 steps each
- Basic program single step
- Data recording and downloading

MAIN FEATURES

Natural convection oven ArgoLab

Simultaneous display of all operating parameters. Visual and acoustic alarms which can be silenced by the operator.

Digital timer with a range of programming 1 min - 99 h 59 min. and continuous working.

Possibility to set a delayed start of heating cycle.

"Safe temperature" function: working temperature limiter for sample protection.

Minimum heating times and reduced heating power for low energy consumption in every application.

Recording of working data without limit on USB drive.

Safety class 3.1 (DIN 12880): maximum temperature regulator with fluid expansion.

Standard passage hole of Ø 5 mm (upper side) for insertion of an external temperature probe to control and/or certification of internal temperature.



Stainless steel chamber with rounded corners, supports and shelves completely removable for an easy cleaning.

Power supply 220 ± 10% V - 50 Hz.

Supplied with: steel wire shelves (n° 2 shelves for models up to 50 l, n° 3 shelves for models over), calibration report at 150°C executed with certificated Accredia instrument, USB drive for recording and downloading data.

TCN SUPER

| Name | Volume (l) | Stability at 150 °C | Homogeneity a 150 (°C) | External dim. LxAxP (mm) | Weight (kg) | Power (W) | p/n |
|---------------|------------|---------------------|------------------------|--------------------------|-------------|-----------|----------|
| TCN 50 SUPER | 50 | ± 0,5 | ± 3,5 | 690 x 635 x 470 | 53 | 1000 | 41100502 |
| TCN 115 SUPER | 115 | ± 0,5 | ± 3,5 | 815 x 750 x 600 | 74 | 1900 | 41100512 |
| TCN 200 SUPER | 200 | ± 0,7 | ± 4,0 | 940 x 905 x 660 | 103 | 2100 | 41100522 |

TCN PLUS

| Name | Volume (l) | Stability at 150 °C | Homogeneity a 150 (°C) | External dim. LxAxP (mm) | Weight (kg) | Power (W) | p/n |
|--------------|------------|---------------------|------------------------|--------------------------|-------------|-----------|----------|
| TCN 30* PLUS | 30 | ± 0,5 | ± 3,5 | 460 x 685 x 530 | 40 | 700 | 41100062 |
| TCN 50 PLUS | 50 | ± 0,5 | ± 3,5 | 690 x 635 x 470 | 53 | 1000 | 41100002 |
| TCN 115 PLUS | 115 | ± 0,5 | ± 3,5 | 815 x 750 x 600 | 74 | 1900 | 41100012 |
| TCN 200 PLUS | 200 | ± 0,7 | ± 4,0 | 940 x 905 x 660 | 103 | 2100 | 41100022 |

* Working range TCN 30: +10°C T amb. ... +200 °C

TCN SERIE Plus

- Working range: +5°C RT ... +300 °C *
- Backlit LED display
- 7 storable programs with 10 steps each
- Basic program *single* step

* except TCN 30: +10°C T amb. ... +200 °C

MAIN FEATURES

Natural convection oven Argolab

Simultaneous display of all operating parameters. Visual and acoustic alarms which can be silenced by the operator.

Digital timer with a range of programming 1 min - 99 h 59 min. and continuous working.

Possibility to set a delayed start of heating cycle.

"Safe temperature" function: working temperature limiter for sample protection.

Minimum heating times and reduced heating power for low energy consumption in every application.

Safety class 3.1 (DIN 12880): maximum temperature regulator with fluid expansion.

Standard passage hole of Ø 5 mm (upper side) for insertion of an external temperature probe to control and/or certification of internal temperature.

Stainless steel chamber with rounded corners, supports and



shelves completely removable for an easy cleaning.
Power supply 220 ± 10% V - 50 Hz.

Supplied with: steel wire shelves (n° 2 shelves for models up to 50 l, n° 3 shelves for models over), calibration report at 150°C executed with certificated Accredia instrument.

ACCESSORIES FOR TCN (SUPER AND PLUS)

| Description | | p/n |
|--|--|----------|
| Steel wire shelves for TCN 30 |  | 41100142 |
| Steel wire shelves for TCN 50 | | 41100102 |
| Steel wire shelves for TCN 115 | | 41100112 |
| Steel wire shelves for TCN 200 | | 41100122 |
| Holed platform for oven TCN 30 |  | 41100192 |
| Holed platform for oven TCN 50 | | 41100152 |
| Holed platform for oven TCN 115 | | 41100162 |
| Holed platform for oven TCN 200 | | 41100172 |
| Internal hole Ø 25 mm complete with closing cap (Only on the sides shown in the picture - position to choose) |  | 41110152 |
| Internal hole Ø 50 mm complete with closing cap (Only on the sides shown in the picture - position to choose) | | 41110142 |
| Wheels for TCN 200. Kit of 4 pieces | | 41101172 |
| Manual IQ-00 | | 41119002 |

THERMOSTATION

TCF *SERIE Super*

- Working range: +10 °C RT ... +300 °C
- Colour touchscreen display
- 8 storable programs with 8 steps each
- Basic program single step
- Data recording and downloading



MAIN FEATURES

Forced air oven ArgoLab

Simultaneous display of all operating parameters. Visual and acoustic alarms which can be silenced by the operator.

Digital timer with a range of programming 1 min - 99 h 59 min. and continuous working.

Possibility to set a delayed start of heating cycle.

"Safe temperature" function: working temperature limiter for sample protection.

Adjustable fan on 3 levels: High= 100% - Medium= 75% - Low= 50%
Minimum heating times and reduced heating power for low energy consumption in every application.

Recording of working data without limit on USB drive.

Safety class 3.1 (DIN 12880): maximum temperature regulator with fluid expansion.

Standard passage hole of Ø 5 mm (upper side) for insertion of

an external temperature probe to control and/or certification of internal temperature.

Stainless steel chamber with rounded corners, supports and shelves completely removable for an easy cleaning.

Power supply 220 ± 10% V - 50 Hz.

Supplied with: steel wire shelves (n°2 shelves for models up to 50 l, n°3 shelves for models over), calibration report at 150°C executed with certificated Accredia instrument, USB drive for recording and downloading data.

TCF SUPER

| Name | Volume (l) | Stability at 150 °C | Homogeneity a 150 (°C) | External dim. LxAxP (mm) | Weight (kg) | Power (W) | p/n |
|---------------|------------|---------------------|------------------------|--------------------------|-------------|-----------|----------|
| TCF 50 SUPER | 50 | ± 0,3 | ± 2% | 690 x 635 x 570 | 54 | 980 | 41100602 |
| TCF 120 SUPER | 120 | ± 0,3 | ± 2% | 810 x 750 x 690 | 74 | 1900 | 41100612 |
| TCF 200 SUPER | 200 | ± 0,4 | ± 2% | 945 x 870 x 755 | 103 | 2400 | 41100622 |
| TCF 400 SUPER | 400 | ± 0,5 | ± 2% | 1285 x 1060 x 750 | 160 | 3200 | 41100632 |

TCF PLUS

| Name | Volume (l) | Stability at 150 °C | Homogeneity a 150 (°C) | External dim. LxAxP (mm) | Weight (kg) | Power (W) | p/n |
|--------------|------------|---------------------|------------------------|--------------------------|-------------|-----------|----------|
| TCF 50 PLUS | 50 | ± 0,3 | ± 2% | 690 x 635 x 570 | 54 | 980 | 41100202 |
| TCF 120 PLUS | 120 | ± 0,3 | ± 2% | 810 x 750 x 690 | 74 | 1900 | 41100212 |
| TCF 200 PLUS | 200 | ± 0,4 | ± 2% | 945 x 870 x 755 | 103 | 2400 | 41100222 |
| TCF 400 PLUS | 400 | ± 0,2 | ± 2% | 1285 x 1060 x 750 | 160 | 3200 | 41100232 |

TCF SERIE Plus

- Working range: +10 °C RT ... +300 °C *
- Backlit LED display
- 7 storable programs with 10 steps each
- Basic program *single* step



MAIN FEATURES

Forced air oven ArgoLab

Simultaneous display of all operating parameters. Visual and acoustic alarms which can be silenced by the operator.

Digital timer with a range of programming 1 min - 99 h 59 min. and continuous working.

Possibility to set a delayed start of heating cycle.

"Safe temperature" function: working temperature limiter for sample protection.

Adjustable fan on 3 levels: High= 100% - Medium = 75% - Low= 50%

Minimum heating times and reduced heating power for low energy consumption in every application.

Safety class 3.1 (DIN 12880): maximum temperature regulator with fluid expansion.

Standard passage hole of Ø 5 mm (upper side) for insertion of an external temperature probe to control and/or certification of in-

ternal temperature.

Stainless steel chamber with rounded corners, supports and shelves completely removable for an easy cleaning.

Power supply 220 ± 10% V - 50 Hz.

Supplied with: steel wire shelves (n°2 shelves for models up to 50 l, n°3 shelves for models over), calibration report at 150°C executed with certificated Accredia instrument.

ACCESSORIES TCF (SUPER AND PLUS)

| Description | | p/n |
|--|--|----------|
| Steel wire shelves for TCF 50 |  | 41100102 |
| Steel wire shelves for TCF 120 | | 41100112 |
| Steel wire shelves for TCF 200 | | 41100122 |
| Steel wire shelves for TCF 400 | | 41100132 |
| Holed platform for oven TCF 50 |  | 41100152 |
| Holed platform for oven TCF 120 | | 41100162 |
| Holed platform for oven TCF 200 | | 41100172 |
| Holed platform for oven TCF 400 | | 41100182 |
| Internal hole Ø 25 mm complete with closing cap (Only on the sides shown in the picture - position to choose) |  | 41110152 |
| Internal hole Ø 50 mm complete with closing cap (Only on the sides shown in the picture - position to choose) | | 41110142 |
| Wheels for TCF 200 and 400. Kit of 4 pieces | | 41101172 |
| Manual IQ-00 | | 41119002 |

ICN *SERIE Super*

- Working range: +5 °C RT ... +70 °C
- Colour touchscreen display
- 8 storable programs with 8 steps each
- Basic program single step
- Data recording and downloading

MAIN FEATURES

Natural convection oven ArgoLab

Simultaneous display of all operating parameters. Visual and acoustic alarms which can be silenced by the operator.

Digital timer with a range of programming 1 min - 99 h 59 min. and continuous working.

Possibility to set a delayed start of heating cycle.

"Safe temperature" function: working temperature limiter for sample protection.

Minimum heating times and reduced heating power for low energy consumption in every application.

Recording of working data without limit on USB drive.

Safety class 2 (DIN 12880)

Samples checking without heat loss: wide glass window door (ICN 16 ICN 35), double door (the internal one is made of glass) for the other models.

Standard passage hole of Ø 5,5 mm (upper side) for insertion of



an external temperature probe to control and/or certification of internal temperature.

Stainless steel chamber with rounded corners, supports and shelves completely removable for an easy cleaning.

Power supply 220 ± 10% V - 50 Hz.

Supplied with: steel wire shelves (n°2 shelves for models up to 55 l, n°3 shelves for models over), calibration report at 150°C executed with certificated Accredia instrument, USB drive for recording and downloading data.

ICN SUPER

| Name | Volume (l) | Stability at 150 °C | Homogeneity a 150 (°C) | External dim. LxAxP (mm) | Weight (kg) | Power (W) | p/n |
|---------------|------------|---------------------|------------------------|--------------------------|-------------|-----------|----------|
| ICN 16 SUPER | 16 | ± 0,3 | ± 0,4 | 530 x 370 x 400 | 23 | 85 | 41101302 |
| ICN 35 SUPER | 35 | ± 0,3 | ± 0,4 | 620 x 440 x 460 | 33 | 125 | 41101312 |
| ICN 55 SUPER | 55 | ± 0,3 | ± 0,5 | 660 x 500 x 545 | 42 | 250 | 41101322 |
| ICN 120 SUPER | 120 | ± 0,3 | ± 0,5 | 780 x 610 x 645 | 61 | 350 | 41101332 |
| ICN 200 SUPER | 200 | ± 0,3 | ± 0,5 | 875 x 755 x 710 | 77 | 600 | 41101342 |

ICN PLUS

| Name | Volume (l) | Stability at 150 °C | Homogeneity a 150 (°C) | External dim. LxAxP (mm) | Weight (kg) | Power (W) | p/n |
|--------------|------------|---------------------|------------------------|--------------------------|-------------|-----------|----------|
| ICN 16 PLUS | 16 | ± 0,3 | ± 0,4 | 530 x 370 x 400 | 23 | 85 | 41101002 |
| ICN 35 PLUS | 35 | ± 0,3 | ± 0,4 | 620 x 440 x 460 | 33 | 125 | 41101012 |
| ICN 55 PLUS | 55 | ± 0,3 | ± 0,5 | 660 x 500 x 545 | 42 | 250 | 41101022 |
| ICN 120 PLUS | 120 | ± 0,3 | ± 0,5 | 780 x 610 x 645 | 61 | 350 | 41101032 |
| ICN 200 PLUS | 200 | ± 0,3 | ± 0,5 | 875 x 755 x 710 | 77 | 600 | 41101042 |

ICN SERIE Plus

- Working range: +5 °C RT... +70 °C *
- Backlit LED display
- 7 storable programs with 10 steps each
- Basic program *single* step



MAIN FEATURES

Natural convection oven Argolab

Simultaneous display of all operating parameters. Visual and acoustic alarms which can be silenced by the operator.

Digital timer with a range of programming 1 min - 99 h 59 min. and continuous working.

Possibility to set a delayed start of heating cycle.

"Safe temperature" function: working temperature limiter for sample protection.

Minimum heating times and reduced heating power for low energy consumption in every application.

Safety class 2 (DIN 12880)

Samples checking without heat loss: wide glass window door (ICN 16 ICN 35), double door (the internal one is made of glass) for the other models.

Standard passage hole of Ø 5,5 mm (upper side) for insertion of an external temperature probe to control and/or certification of internal temperature.

Stainless steel chamber with rounded corners, supports and shelves completely removable for an easy cleaning.

Power supply 220 ± 10% V - 50 Hz.

Supplied with: steel wire shelves (n°2 shelves for models up to 55 l, n°3 shelves for models over), calibration report at 37°C executed with certificated Accredia instrument.



Glass window

ACCESSORIES FOR ICN (SUPER AND PLUS)

| Description | p/n |
|-------------------------------------|----------|
| Steel wire shelves for ICN 16 | 41101112 |
| Steel wire shelves for ICN 35 | 41101122 |
| Steel wire shelves for ICN 55 | 41101132 |
| Steel wire shelves for ICN 120 | 41101142 |
| Steel wire shelves for ICN 200 | 41101152 |
| Wheels for ICN 200. Kit of 4 pieces | 41101172 |
| Manual IQ-00 | 41119002 |

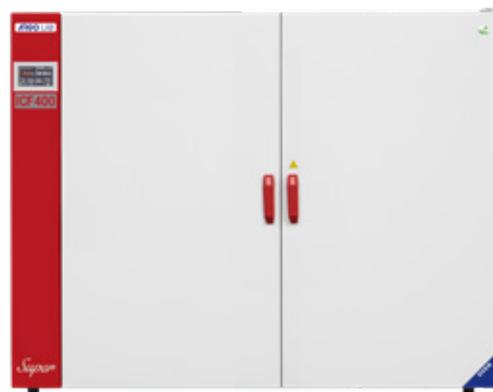


THERMOSTATION

ICF

SERIE *Super*

- Working range: +5 °C RT ... +80 °C
- Colour touchscreen display
- 8 storable programs with 8 steps each
- Basic program single step
- Data recording and downloading
- Sterilization program at 130 °C



MAIN FEATURES

Forced air incubator ArgoLab

Simultaneous display of all operating parameters. Visual and acoustic alarms which can be silenced by the operator. Digital timer with a range of programming 1 min - 99 h 59 min. and continuous working.

Possibility to set a delayed start of heating cycle.

"Safe temperature" function: working temperature limiter for sample protection.

Sterilisation special program at 130 °C

Adjustable fan on 3 levels: High= 100% - Medium = 75% - Low= 50%

Minimum heating times and reduced heating power for low energy consumption in every application.

Recording of working data without limit on USB drive.

Minimum heating times and reduced heating power for low energy consumption in every application.

Recording of working data without limit on USB drive.

Safety class 3.1 (DIN 12880): maximum temperature regulator with fluid expansion.

Standard passage hole of Ø 5 mm (upper side) for insertion of an external temperature probe to control and/or certification of internal temperature.

Stainless steel chamber with rounded corners, supports and shelves completely removable for an easy cleaning.

Power supply 220 ± 10% V - 50 Hz.

Supplied with: 3 steel wire shelves, calibration report at 37 °C executed with certificated Accredia instrument, USB drive for recording and downloading data.

ICF SUPER

| Name | Volume (l) | Stability at 150 °C | Homogeneity a 150 (°C) | External dim. LxAxP (mm) | Weight (kg) | Power (W) | p/n |
|---------------|------------|---------------------|------------------------|--------------------------|-------------|-----------|----------|
| ICF 120 SUPER | 120 | ± 0,1 | ± 0,4 | 810 x 750 x 690 | 74 | 600 | 41100912 |
| ICF 200 SUPER | 200 | ± 0,2 | ± 0,4 | 945 x 870 x 755 | 103 | 700 | 41100922 |
| ICF 400 SUPER | 400 | ± 0,3 | ± 0,5 | 1285 x 1060 x 750 | 160 | 1500 | 41100932 |

ICF PLUS

| Name | Volume (l) | Stability at 150 °C | Homogeneity a 150 (°C) | External dim. LxAxP (mm) | Weight (kg) | Power (W) | p/n |
|--------------|------------|---------------------|------------------------|--------------------------|-------------|-----------|----------|
| ICF 120 PLUS | 120 | ± 0,1 | ± 0,4 | 810 x 750 x 690 | 74 | 600 | 41100812 |
| ICF 200 PLUS | 200 | ± 0,2 | ± 0,4 | 945 x 870 x 755 | 103 | 700 | 41100822 |
| ICF 400 PLUS | 400 | ± 0,3 | ± 0,5 | 1285 x 1060 x 750 | 160 | 1500 | 41100832 |

ICF SERIE Plus

- Working range: +5 °C RT ... +80 °C *
- Backlit LED display
- 7 storable programs with 10 steps each
- Basic program *single* step
- Sterilization program at 130 °C



MAIN FEATURES

Forced air incubator ArgoLab

Simultaneous display of all operating parameters. Visual and acoustic alarms which can be silenced by the operator. Digital timer with a range of programming 1 min - 99 h 59 min. and continuous working.

Possibility to set a delayed start of heating cycle.

"Safe temperature" function: working temperature limiter for sample protection.

Sterilisation special program at 130° C

Adjustable fan on 3 levels: High= 100% - Medium = 75% - Low= 50%

Minimum heating times and reduced heating power for low energy consumption in every application.

Safety class 3.1 (DIN 12880): maximum temperature regulator with fluid expansion.

Standard passage hole of Ø 5 mm (upper side) for insertion

of an external temperature probe to control and/or certification of internal temperature.

Stainless steel chamber with rounded corners, supports and shelves completely removable for an easy cleaning.

Power supply 220 ± 10% V - 50 Hz.

Supplied with: 3 steel wire shelves , calibration report at 37 °C executed with certificated Accredia instrument.

ACCESSORIES FOR ICF (SUPER AND PLUS)

| Description | | p/n |
|--|--|----------|
| Steel wire shelves for ICF 120 |  | 41100112 |
| Steel wire shelves for ICF 200 | | 41100122 |
| Steel wire shelves for ICF 400 | | 41100132 |
| Holed platform for ICF 120 |  | 41100162 |
| Holed platform for ICF 200 | | 41100172 |
| Holed platform for ICF 400 | | 41100182 |
| Internal hole Ø 25 mm complete with closing cap (Only on the sides shown in the picture - position to choose) |  | 41110152 |
| Internal hole Ø 50 mm complete with closing cap (Only on the sides shown in the picture - position to choose) | | 41110142 |
| Wheels for ICF 200 and ICF 400. Kit of 4 pieces | | 41101172 |
| Manual IQ-00 | | 41119002 |

IC 150-R

- Working range: 0 ... +60 °C
- Volume 150 l
- Backlit LED display
- 7 storable programs with 10 steps each
- Basic program *single* step

MAIN FEATURES

Air forced cooled incubator Argolab.

Simultaneous display of all operating parameters.

Visual and acoustic alarms which can be silenced by the operator.

Digital timer with a range of programming 1 min - 99 h 59 min. and continuous working.

Possibility to set a delayed start of heating cycle.

"Safe temperature" function: working temperature limiter for sample protection.

Safety class 3.1 (DIN 12880): maximum temperature regulator with fluid expansion.

Lateral internal passage hole of Ø 25 mm for insertion of one or more external temperature probes to control and/or certification of internal temperature.

Stainless steel chamber with rounded corners, supports and shelves completely removable for an

easy cleaning.

Power supply 220 ± 10% V - 50 Hz.

Supplied with: three steel wire shelves, calibration report at 25°C executed with certificated Accredia instrument.



| Name | Volume (l) | Stability at 150 °C | Homogeneity a 150 (°C) | External dim. LxAxP (mm) | Weight (kg) | Power (W) | p/n |
|----------------------|------------|---------------------|------------------------|--------------------------|-------------|-----------|----------|
| IC 150-R PLUS | 150 | ± 0,1 | ± 0,5 | 650 x 1350 x 620 | 100 | 1100 | 41101512 |

ACCESSORIES IC 150-R

| Description | p/n |
|---|----------|
| Steel wire shelves for IC 150-R | 41101562 |
| Internal hole Ø 25 mm complete with closing cap (On upper and lateral sides only) | 41110152 |
| Internal hole Ø 50 mm complete with closing cap (On upper and lateral sides only) | 41110142 |
| Manual IQ-00 | 41119002 |

CH 150 / CH 250 CLIMATIC CHAMBER

- Working range RH: +50... +95 % RH
- Working range with humidity: +10 ... 70 °C
- Working range without humidity: 0 ... +85 °C
- Storable programs from 1 to 100 steps

MAIN FEATURES

Climatic chamber ArgoLab.

Backlit digital LCD.

Digital timer, clock with hour and date for GLP functions.

Standard supplied mini printer for operating and set parameters output.

Safety class 3.1(DIN 12880): maximum temperature regulator with fluid expansion.

Stainless steel chamber with rounded corners.

External steel door with wide glass window and led inner lamp for observation of the samples.

Lateral internal passage hole of Ø 25 mm for insertion of one or more external temperature probes to control and/or certification of internal temperature.

Power supply 220 ± 10% V - 50 Hz.

Temperature homogeneity in the chamber:

±0,5 °C (without humidity), ± 1,5 °C (10 °C ÷ 70 °C / 50 ÷ 95% RH)

Temperature variation over time:

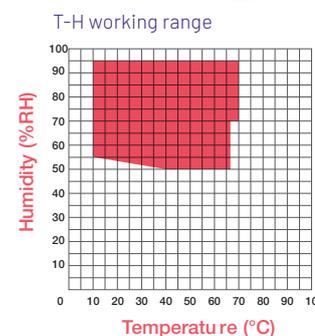
±0,2 °C (without humidity), ± 0,5 °C (10 °C ÷ 70 °C / 50 ÷ 95% RH)

Humidity fluctuation:

≤ 2 % (10 °C ÷ 70 °C / 50 ÷ 95% RH)

Supplied with: three steel wire shelves, water tank for humidity generator.

The climatic chambers are delivered after being carefully tested.



| Name | Volume (l) | External dimensions LxAxP (mm) | Weight (kg) | p/n |
|--------|------------|--------------------------------|-------------|----------|
| CH 150 | 150 | 690 x 1520 x 790 | 145 | 41101412 |
| CH 250 | 250 | 740 x 1680 x 885 | 185 | 41101422 |

ACCESSORIES CH 150 / CH 250

| Description | p/n |
|-------------------------------|----------|
| Steel wire shelves for CH 150 | 41101462 |
| Steel wire shelves for CH 250 | 41101472 |
| Manual IQ-00 | 41119002 |

CB 5 SERIES CIRCULATING BATH

- Working range: -30 / -20 / -10 ... +100 °C
- Volume: 5 l
- External PT100 to control the temperature of the cycle
- Backlit LED display

MAIN FEATURES

Circulating bath Argolab

Simultaneous display of all operating parameters. Visual and acoustic alarms which can be silenced by the operator.

Digital timer with a range of programming 1 min - 99 h 59 min. and continuous working.

Possibility to set a delayed start of heating cycle.

"Safe temperature" function: working temperature limiter for sample protection.

Safety class 3 (DIN 12880): maximum temperature regulator with fluid expansion.

Standard passage hole of Ø 5 mm (upper side) for insertion of an external temperature probe to control and/or certification of internal temperature.

Contemporary circulation of the fluid inside and outside the tank to improve the thermic stability and inertia.

Automatic reading of the temperature of the external cycle through the probe PT100 supplied as standard.

Handy pipe to exclude the external circulation for an easy cleaning and maintenance.

Safety system in case of absence of the thermal fluid.

Internal stainless-steel tank, equipped with lid, easily accessible.



Power supply: 220 ± 10% V - 50 Hz.

Supplied with: probe PT100 for the external control of the temperature.

Set of two 2 mt. pipes with insulating material (working range -40...+60 °C), metal clamps, and pipe fittings.

MODELS

| Name | Volume (l) | Working range (°C) | Dimensions LxPxA (mm) | Weight (kg) | Power (W) | p/n |
|---------|------------|--------------------|-----------------------|-------------|-----------|----------|
| CB 5-10 | 5 | -10 ... +100 | 290 x 570 x 710 | 34 | 2300 | 41102202 |
| CB 5-20 | 5 | -20 ... +100 | 380 x 670 x 840 | 54 | 2600 | 41102212 |
| CB 5-30 | 5 | -30 ... +100 | 380 x 670 x 840 | 54 | 2600 | 41102222 |

ACCESSORIES FOR CB

| | Description | p/n |
|----------------------|--|----------|
| PIPES | Kit of two 2 mt. pipes with insulating material (working range -40...+60 °C), complete with metal clamps for fastening to the pipe fittings. | 41102302 |
| WHEELS | Kit of 4 swivel wheels, two of which can be braked | 41102312 |
| THERMAL FLUID | Pre-mixed ready-to-use thermal fluid, working range -30+80 °C. 5 litres tank. | 41102322 |
| PT 56 TFE | External temperature probe in TFE for CB | 51000252 |

WB SERIES

- Working range : +5°C RT ... +85 / +100 °C
- Volume 5 / 12 / 22 / 40 l
- Backlit LED display

MAIN FEATURES

Waterbath Argolab.

Safety class 2 (DIN 12880).

Visual and acoustic alarms which can be silenced by the operator.

Digital timer with a range of programming 1 min - 99 h 59 min. and continuous working.

Possibility to set a delayed start of heating cycle.

"Safe temperature" function: working temperature limiter for sample protection.

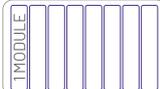
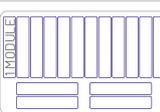
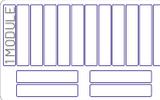
Internal tank and drilled bottom plate (removable) in high quality stainless steel.



WB 22 Pump and WB 40 Pump ensure a faster and more uniform temperature distribution thanks to the recirculation pump.

Power supply: 220 ± 10% V - 50 Hz.

Supplied with: stainless steel lid with 5 mm hole for the passage of an external probe, drilled bottom plate and pipes kit for the tank emptying.

| Name | Volume (l) | Working range (°C) | Stability at 37 °C | Tank dimensions LxPxA (mm) | Disposition rack | p/n |
|-----------------|------------|--------------------|--------------------|----------------------------|---|----------|
| NEW WB 5 | 5 | +5 Ta ... +100 | ± 0,1 | 300 x 155 x 150 |  | 41101592 |
| WB 12 | 12 | +5 RT ... +100 | ± 0,1 | 300 x 240 x 200 |  | 41101602 |
| WB 22 | 22 | +5 RT ... +100 | ± 0,1 | 500 x 295 x 200 |  | 41101712 |
| WB 22 PUMP | 22 | +5 RT ... +85 | ± 0,1 | 500 x 295 x 200 |  | 41101612 |
| WB 40 PUMP | 40 | +5 RT ... +85 | ± 0,2 | 645 x 395 x 200 |  | 41101622 |

ACCESSORIES FOR WB

| Description | Modules | p/n |
|--|---------|----------|
| RACK 1 for pipes Ø13mm / 20 places | 1 | 41101802 |
| RACK 2 for pipes Ø18mm / 20 places | 1 | 41101812 |
| RACK 3 for pipes Ø31mm / 5 places | 1 | 41101822 |
| RACK 4 for pipes Ø56mm / 8 places (biberon) | 3 | 41101842 |
| RACK 5 for blood sachets / 5 places | 3 | 41101852 |



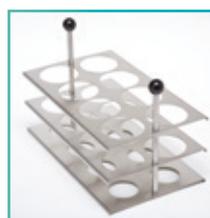
RACK 1
Ø13mm



RACK 2
Ø18mm



RACK 3
Ø31mm



RACK 4
Ø56mm



RACK 5
for blood sachets

SB 35 SHAKING BATH

- Working range : +5°C RT ... +100 °C
- Tank capacity: 35 litres
- Backlit LED display

MAIN FEATURES

Shaking bath Dubnoff Argolab.

Visual and acoustic alarms which can be silenced by the operator.

Digital timer with a range of programming 1 min - 99 h 59 min. and continuous working.

Possibility to set a delayed start of heating cycle.

"Safe temperature" function: working temperature limiter for sample protection.

Safety class 2 (DIN 12880).

Power supply: 230V/50Hz, weight: 28kg.

Supplied with: stainless steel lid with 5 mm hole for the passage of an external probe, universal basket with stainless steel spring supports, tank emptying pipe and quick-coupling valve for the periodic liquid replacement.



MODELS

| Name | Volume (l) | Working range (°C) | Stability a 37 (°C) | Homogeneity a 37 (°C) | Basket dimensions LxAxP (mm) | p/n |
|-------|---------------|-----------------------|------------------------|--------------------------|---------------------------------|----------|
| SB 35 | 35 | +5 RT ... +100 | ±0,5 | ±1 | 320 x 115 x 200 | 41101732 |



DU - DIGITAL ULTRASONIC BATHS

- Working range : +5°C RT ... +80 °C
- Backlit LED display
- Ultrasonic frequency: 40 KHz.
- Timer from 1 to 99 minutes.

MAIN FEATURES

Digital ultrasonic bath Argolab.
Bright digital controller and simultaneous indication of actual temperature and the set one.

Separated control of the ultrasonic power and time.

Temperature adjustment up to 80°C.

Adjustable timer from 1 to 99 minutes.

The valve for tank emptying is available on DU-100 model.

Supplied with: stainless steel mesh basket and lid, 1x 30 ml concentrate universal cleaner.



MODELS

| Name | Volume (l) | Heating power (W) | Ultrasonic power (W) | Tank dimensions LxPxH (mm) | Weight (kg) | p/n |
|---------------|------------|-------------------|----------------------|----------------------------|-------------|----------|
| DU-06 | 0,6 | Not heating | 50 | 150 x 85 x65 | 1,35 | 41300323 |
| DU-32 | 3,2 | 100 | 120 | 240 x 135 x100 | 3,80 | 41300333 |
| DU-45 | 4,5 | 200 | 180 | 300 x 150 x 100 | 4,40 | 41300343 |
| DU-65 | 6,5 | 200 | 180 | 300 x 150 x150 | 5,40 | 41300353 |
| DU-100 | 10 | 500 | 240 | 300 x 240 x150 | 8,20 | 41300363 |

CE-5700

MAIN FEATURES

No-heating digital ultrasonic bath with volume: 0,75L.

Particularly recommended for jewellers.

Digital display, touch screen panel,

Adjustable timer 90-180-280-380-480 Sec.

Ultrasonic frequency 42 KHz.

Tank dimensions (L x P x H) mm.

Supplied with: basket and cover, 1x 30 ml concentrate universal cleaner.



| Name | Volume (l) | Ultrasonic power (W) | Tank dimensions LxPxH (mm) | Weight (Kg) | p/n |
|----------------|------------|----------------------|----------------------------|-------------|----------|
| CE-5700 | 0,75 | 50 | 150 x 130 x 50 | 0,97 | 41300303 |

Thermostation

AU - ANALOGIC ULTRASONIC BATHS

- Working range : +5°C RT ... +80 °C
- Ultrasonic frequency: 40 KHz.
- Timer from 1 to 30 minutes, or in continuous.

MAIN FEATURES

Analogic ultrasonic bath.
Temperature adjustment up to 80°C .
Adjustable timer from 1 to 30 minutes and infinite.
Ultrasonic frequency 40 KHz.

Supplied with: basket and cover, 1x 30 ml concentrate universal cleaner.



MODELS

| Name | Volume (l) | Heating power (W) | Ultrasonic power (W) | Tank dimensions LxPxA (mm) | Weight (kg) | p/n |
|--------|------------|-------------------|----------------------|----------------------------|-------------|----------|
| AU-32 | 3,2 | 100 | 120 | 240 x 135 x 100 | 3,80 | 41300403 |
| AU-65 | 6,5 | 200 | 180 | 300 x 150 x 150 | 5,40 | 41300413 |
| AU-220 | 22 | 500 | 480 | 500 x 300 x 150 | 13,20 | 41300433 |
| AU-450 | 45 | 1000 | 750 | 500 x 300 x 300 | 17,00 | 41300423 |

ACCESSORIES

| Name | Description | p/n |
|---------------------|--|----------|
| CLEANER | Universal cleaning solution. Bottle of 30 ml  | 41300253 |
| CLEANER | Universal cleaning solution. Bottle of 500 ml  | 41300263 |
| BECKER SUPPORT | For DU-45, with 2 holes  | 41300513 |
| BECKER SUPPORT | For DU-65 e AU-65, with 2 holes  | 41300523 |
| BECKER SUPPORT | For DU-100, with 4 holes  | 41300533 |
| SS-200 SIEVE HOLDER | Holder for sieve cleaning Compatible with AU-450 model only. Holder for no. 5 sieves of 80 mm or no. 6 sieves of 60 mm thick.  | 41300203 |

ARGO FREDDO

ARGO LAB

WARRANTY
3
YEARS



EU Designed



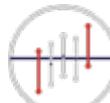
RESOLUTION 0,1°C



MIN-MAX ALARM



HOMOGENEITY
EN 60068-3



VENTILATION
(FR series)



DEFROST



DOOR ALARM



KEY LOCK



PLASTIFIED STEEL
SHELVES



REMOTE ALARM
CONTACT



LED
LIGHTS



REVERSIBLE
DOOR



ECO FRIENDLY
GAS



THROUGH-HOLE
10 mm



WHEELS
(260 L)



FR REFRIGERATORS

- Temperature range: +2 ... +8 °C
- Internal volume: 110 - 260 L
- LED display

FEATURES

Professional laboratory refrigerators and freezers , with digital display and electronic control, temperature alarms, door sensor and manual/automatic defrost (automatic only on FR series).

Smart refrigerated instruments, the internal parameters can be adjusted according to even the most restrictive needs.

The highly efficient compressors contain "environment friendly" ecological gases, free of CFCs and HCFCs, in compliance with the directive 2014/68 / EU.

The internal dynamic ventilation system guarantees the best conditions for the storage of even the most sensitive materials, in compliance with the EN 60068-3 standard.

Three levels of alarms: acoustic, visual and remote with 0 potential contact.



The small-sized models (110 liters internal useful volume) are suitable for environments with limited spaces and can be placed under the counter.

All models are equipped with internal Full-LED light and reversible door, blind or glass (only in the FR-G versions) and with key lock.

Models with volume 260 L are equipped with wheels.

MODELS AVAILABLE FROM MAY 2022

| Name | Volume (liters) | Temperature range (°C) | Internal dim. LxPxA (mm) | Weight (kg) | Power (W) | p/n |
|---------------------|-----------------|------------------------|--------------------------|-------------|-----------|----------|
| NEW FR 110 | 110 | +2 ... +8 °C | 600 x 805 x 560 | 50 | 120 | 41500012 |
| NEW FR 110 G | 110 | +2 ... +8 °C | 600 x 805 x 560 | 50 | 120 | 41500022 |
| NEW FR 260 | 260 | +2 ... +8 °C | 600 x 1525 x 560 | 75 | 160 | 41500032 |
| NEW FR 260 G | 260 | +2 ... +8 °C | 600 x 1525 x 560 | 75 | 160 | 41500042 |

FZ FREEZER

- Temperature range: -25 ... -10 °C
- Internal volume: 110 - 260 L
- LED display

FEATURES

Professional laboratory refrigerators and freezers , with digital display and electronic control, temperature alarms, door sensor and manual/automatic defrost (automatic only on FR series).

Smart refrigerated instruments, the internal parameters can be adjusted according to even the most restrictive needs.

The highly efficient compressors contain "environment friendly" ecological gases, free of CFCs and HCFCs, in compliance with the directive 2014/68 / EU.

Three levels of alarms: acoustic, visual and remote with 0 potential contact.



The **small-sized models** (110 liters internal useful volume) are suitable for environments with limited spaces and can be placed under the counter.

All models are equipped with **internal Full-LED light** and **reversible door**, blind or glass (only in the FR-G versions) and with **key lock**.

Models with volume 260 L are equipped with **wheels**.

MODELS AVAILABLE FROM MAY 2022

| Name | Volume (liters) | Temperature range (°C) | Internal dim. LxPxA (mm) | Weight (kg) | Power (W) | p/n |
|-------------------|-----------------|------------------------|--------------------------|-------------|-----------|----------|
| NEW FZ 110 | 110 | -25 ... -10 °C | 600 x 805 x 560 | 50 | 150 | 41500212 |
| NEW FZ 260 | 260 | -25 ... -10 °C | 600 x 1525 x 560 | 75 | 190 | 41500232 |

ACCESSORIES REFRIGERATORS AND FREEZERS

| | p/n |
|---|----------|
| Standard shelf compatible with all models | 41500702 |
| Bottom shelf compatible with all models | 41500712 |

DATA SHEET



FR 110

FR 110 G

FR 260

FR 260 G

FZ 110

FZ 260

| | | | | | | |
|---|-----------------------------|-----------------|------------------|-----------------|-----------------------------|-------------------|
| Volume [Liters] | 110 | | 260 | | 110 | 260 |
| Temperature range / resolution | +2,0 ... +8,0 °C / 0,1°C | | | | -25,0 ... -10,0 °C / 0,1°C | |
| Defrost function | Auto and manual | | | | Manual | |
| * Temperature variation in space | 1,3 °C (at 5°C) | 1,7 °C (at 5°C) | 1,9 °C (at 5°C) | 2,2 °C (at 5°C) | 2,5 °C (at -20°C) | 2,1 °C (at -20°C) |
| * Gradient | 1,3 °C (at 5°C) | 1,7 °C (at 5°C) | 1,5 °C (at 5°C) | 2,6 °C (at 5°C) | 1,5 °C (at -20°C) | 1,4 °C (at -20°C) |
| ** Recovery time | 12 min (at 5°C) | 9 min (at 5°C) | 18 min (at 5°C) | 18 min (at 5°C) | 22 min (at -20°C) | 30 min (at -20°C) |
| Refrigeration | Dynamic (force ventilation) | | | | Static (natural convection) | |
| Controller / display | Microprocessor / digital | | | | | |
| Power supply | 220 - 240 V | | | | | |
| Internal dimensions (L x A x P) mm | 500 x 570 x 420 | | 500 x 1290 x 450 | | 500 x 570 x 420 | 500 x 1290 x 450 |
| External dimensions (L x A x P) mm | 600 x 805 x 560 | | 600 x 1525 x 560 | | 600 x 805 x 560 | 600 x 1525 x 560 |
| Weight | 50 Kg | | 75 Kg | | 50 Kg | 75 Kg |
| Number of shelves (supplied / max.) | 3 / 3 | | 6 / 7 | | 3 / 3 | 6 / 7 |
| Min. useful distance between shelves | 13 mm | | | | | |
| Maximum shelf load | 15 Kg | | | | | |
| Door | Blind | Glass | Blind | Glass | Blind | |
| Light | LED | | | | | |
| Through-hole diameter | 10 mm | | | | | |
| Power | 120 W | | 160 W | | 150 W | 190 W |
| p/n | 41500012 | 41500022 | 41500032 | 41500042 | 41500212 | 41500232 |

* In accordance with the directive EN 60068-3

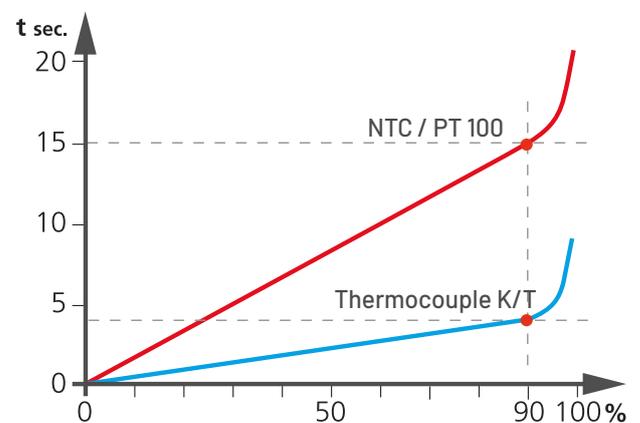
** In accordance with the technical directive DIN 12880

THERMOMETERS



DATA SHEET

| Sensor | Measuring range | Max tolerance | Class |
|----------------|--|--|------------------|
| THERMOCOUPLE K | -60...+1200 °C | ±1,5 °C or 0,4% T* | 1 |
| THERMOCOUPLE T | -40...+350 °C | ±0,5 °C or 0,4% T* | 1 |
| THERMISTOR NTC | +25...+85 °C -40...+125 °C | ±0,5 °C ±1 °C | - |
| PT 100 | -100 °C +0 °C +100 °C +200 °C | ±0,35 °C ±0,15 °C ±0,35 °C ±0,55 °C | Class A |
| PT 100 | -100 °C +0 °C +100 °C +200 °C | ±0,16 °C ±0,06 °C ±0,16 °C ±0,26 °C | Class 1/5 DIN |



T*=Measured temperature. Take the worst condition.

Response time for probe immersed in a liquid.

TEMP 70 *Vio* PT100

- Resolution 0,01 °C
- Measuring range -200,0...+999,9 °C
- Dual channel PT100
- High definition backlit coloured LCD Display
- Data logger up to 1000 data

OTHER FEATURES

GLP portable thermometer, with double channel for PT 100 probes.
 Innovative high resolution color display, excellent readability in all light conditions.
 "Hold" functions and recording of Min and Max values.
 Protected calibration on 1 point with indication of the correction made.
 Manual and automatic data logger, up to 1,000 records with date and time.
 Data-Link free software downloadable on the website www.giorgiobormac.com.
 Guided procedures on the display for a simple and intuitive use.
 LED and self-diagnosis messages indicate the status of the measurement to the operator.
 Powered by battery, PC, or USB power supply. Auto shutdown.

Supplied with:

Transport case, USB power supply, USB cable for PC connection, batteries and user manual.



| Model | Measuring range | Resolution | T Accuracy | p/n |
|---|--------------------|---|--|----------|
| TEMP 70 Vio PT100 WITHOUT PROBE | -200,0...+999,9 °C | 0,01 °C (-99,99...+99,99°C) 0,1 °C elsewhere | ±0,03°C (-99,99...+99,99°C) ± 0,1°C elsewhere | 50111082 |

TEMP 7 *Vio* PT100

- Resolution 0,1 °C
- Measuring range: -200 ... +999 °C
- High definition backlit coloured LCD Display

OTHER FEATURES

Portable thermometer, for PT100 probes, with backlit color display.
 Recording of Min and Max values, measure stability indicator.
 Protected calibration on 1 point with indication of the correction made.
 Hold function and auto-off after 20 minutes (can be disabled).
 Guided procedures on the display for a simple and intuitive use.
 LED and self-diagnosis messages indicate the status of the measurement to the operator.

Supplied with:

Transport case, batteries and user manual.



| Model | Measuring range | Resolution | T Accuracy | p/n |
|--|-----------------|---|---|----------|
| TEMP 7 VIO PT100 WITHOUT PROBE | -200...+999 °C | 0,1 °C (-99,9...+199,9°C) 1 °C elsewhere | ±0,2°C (-99,9...+99,9°C) ±2 °C elsewhere | 50111012 |

PT100 SENSORS

PROBES WITH HANDLE



CABLE = 1,5 M

HANDLE

STAINLESS STEEL STEM

TIP

| Name | Stem length | Stem diameter | Tip | Measuring range °C | Certification range °C | t ₉₀ min | Precision class | p/n |
|--------------------------------------|-------------|---------------|---|--------------------|------------------------|---------------------|-----------------|----------|
| PT56 L LIQUID AND AIR | 200 mm | Ø= 3 mm |  | -50 ... +400 | -50 ... +300 | 2 | A | 51000202 |
| PT56 C CONTACT | 200 mm | Ø= 5 mm |  | -50 ... +400 | 0 ... +250 | 3 | A | 51000212 |
| PT56 P PENETRATION | 150 mm | Ø= 4 mm |  | -50 ... +400 | -50 ... +250 | 2 | A | 51000222 |
| PT56 A AIR | 200 mm | Ø= 4 mm |  | -50 ... +250 | -50 ... +150 | 2 | A | 51000232 |
| PT56 L 1/5 DIN | 200 mm | Ø= 3 mm |  | -50 ... +400 | -50 ... +300 | 2 | 1/5 DIN | 51000242 |
| PT56 /500 LIQUIDS AND AIR | 500 mm | Ø= 6 mm |  | -50 ... +400 | -50 ... +300 | 5 | A | 51000262 |
| PT56 /1000 LIQUIDS AND AIR | 1000 mm | Ø= 6 mm |  | -50 ... +400 | -50 ... +300 | 5 | A | 51000272 |

PROBES WITHOUT HANDLE- PERFECT FOR OVEN AND INCUBATORS



CABLE = 3 M - TEFLON

STAINLESS STEEL STEM

| Name | Stem length | Stem diameter | Tip | Measuring range °C | Certification range °C | t ₉₀ min | Precision class | p/n |
|---|-------------|---------------|---|--------------------------------|------------------------|---------------------|-----------------|----------|
| PT56 TFE LIQUIDS AND AIR | 100 mm | Ø= 4 mm |  | -100... +300 cable included | -80 ... +250 | 3 | A | 51000252 |
| PT56 TFE 1/5 DIN LIQUIDS AND AIR | 100 mm | Ø= 4 mm |  | -100... +300 cable included | -80 ... +250 | 3 | 1/5 DIN | 51000292 |

TEMP 7 *vio* NTC

- Resolution 0,1°C
- Measuring range: -50,0...+150,0 °C
- High definition backlit coloured LCD Display

OTHER FEATURES

Portable thermometer, for NTC 30KΩ probes, with backlit color display. Recording of Min and Max values, measure stability indicator. Protected calibration on 1 point with indication of the correction made. Hold function and auto-off after 20 minutes (can be disabled). Guided procedures on the display for a simple and intuitive use. LED and self-diagnosis messages indicate the status of the measurement to the operator.

Supplied with:
Transport case, batteries and user manual.



| Model | Description | p/n |
|--|---|----------|
| TEMP 7 Vio NTC WITHOUT PROBE | Portable thermometer | 50111052 |
| TEMP 7 Vio NTC WITH PROBE FOR AIR AND LIQUID | Portable thermometer with NT7L probe for air and liquid | 50111062 |
| TEMP 7 Vio NTC WITH PENETRATION PROBE | Portable thermometer with NT7P probe with penetration tip | 50111092 |

PROBES NTC



| Name | Stem length | Stem diameter | Tip | Measuring range °C | Certification range °C | t ₉₀ min | p/n |
|--------------------------------|-------------|---------------|-----|--------------------|------------------------|---------------------|----------|
| NT7L LIQUIDS AND AIR | 200 mm | ∅= 3 mm | | - 50 ... +150 | 0 ... +150 | 3 | 50011142 |
| NT7P PENETRATION | 150 mm | ∅= 4 mm | | - 50 ... +150 | 0 ... +150 | 3 | 50011122 |

TEMP 7 *vio* K/T

- Resolution 0,1 °C
- Measuring range: -250,0...+1.350 °C
- High definition backlit coloured LCD Display

OTHER FEATURES

Portable thermometer, for thermocouple K/T probes, with backlit color display.

Recording of Min and Max values, measure stability indicator.

Protected calibration on 1 point with indication of the correction made.

Hold function and auto-off after 20 minutes (can be disabled).

Guided procedures on the display for a simple and intuitive use.

LED and self-diagnosis messages indicate the status of the measurement to the operator.



Supplied with:

Transport case, batteries and user manual.

| Model | Measuring range | Resolution | T Accuracy | p/n |
|--|--|---|---|----------|
| TEMP 7 Vio K/T WITHOUT PROBE | K = - 200,0...+1.350 °C T = - 250,0...+400 °C | 0,1 °C (-99,9...+199,9°C) 1 °C elsewhere | ±0,1 % / ±0,4 % measure > -150 °C ±0,25 % / ± 1 °C measure < -150 °C | 50111032 |



XS Portable thermometers brochures are available on our website www.xsinstruments.com

TERMOCOUPLE PROBES K

PROBES WITH HANDLE



| Name | Stem length | Stem diameter | Tip | Measuring range °C | Certification range °C | t ₉₀ min | Precision class | p/n |
|----------------------------------|--------------------|---------------|-----|--------------------|------------------------|---------------------|-----------------|----------|
| 3K 220 LIQUIDS AND AIR | 200 mm | Ø= 2 mm | | - 60 ... +600 | 0 ... + 400 | 2 | 1 | 51000752 |
| 3K 320 | 200 mm | Ø= 3 mm | | - 60 ... +800 | 0 ... + 550 | 3 | 1 | 51000762 |
| 3K 350 | 500 mm | Ø= 3 mm | | - 60 ... +800 | 0 ... + 800 | 2 | 1 | 51000772 |
| 3K 6100 | 1000 mm FOLDING | Ø= 6 mm | | - 60 ... +1100 | 0 ... + 1100 | 4 | 1 | 51000782 |
| 3K 6120 | 1200 mm FOLDING | Ø= 6 mm | | - 60 ... +1100 | 0 ... + 1100 | 6 | 1 | 51000822 |
| 3K 650 | 500 mm FOLDING | Ø= 6 mm | | - 60 ... +1100 | 0 ... + 1100 | 7 | 1 | 51000792 |
| 3K 415 P PENETRATION | 150 mm | Ø= 4 mm | | - 50 ... +600 | 0 ... + 550 | 2 | 1 | 51000832 |
| 3K 520 C CONTACT | 200 mm | Ø= 5 mm | | - 60 ... +600 | 0 ... + 250 | 2 | 1 | 51000802 |

PROBES WITHOUT HANDLE - PERFECT FOR TUBES AND HARD PLACES TO REACH



| Name | Stem length | Stem diameter | Tip | Measuring range °C | Certification range °C | t ₉₀ min | Precision class | p/n |
|------------------------------------|-------------|---------------|-----|--------------------|------------------------|---------------------|-----------------|----------|
| 3K 1200 MANIPULABLE WIRE | 2000 mm | Ø= 2 mm | | - 60 ... +400 | 0 ... + 300 | 1 | 1 | 51000812 |

THERMOMETERS

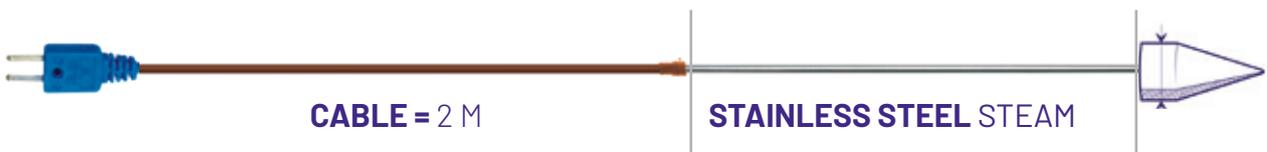
TERMOCOUPLE PROBES T

PROBES WITH HANDLE SUGGESTED FOR FOOD AND PHARMACEUTICAL INDUSTRY



| Name | Stem lenght | Stem diameter | Tip | Measuring range °C | Certification range °C | t ₉₀ min | Precision class | p/n |
|----------------------------------|-------------|---------------|-----|--------------------|------------------------|---------------------|-----------------|----------|
| 3T 320 LIQUIDS AND AIR | 200 mm | Ø= 3 mm | | -50 ... +350 | -40 ... +300 | 3 | 1 | 51000902 |
| 3T 415 PENETRATION | 150 mm | Ø= 4 mm | | -50 ... +350 | -40 ... +300 | 2 | 1 | 51000912 |
| 3T 215 PENETRATION | 150 mm | Ø= 2 mm | | -50 ... +350 | -40 ... +300 | 1 | 1 | 51000942 |
| 3T 520 C CONTACT | 200 mm | Ø= 5 mm | | -50 ... +350 | 0 ... +250 | 2 | 1 | 51000922 |
| 3T 420 A AIR | 200 mm | Ø= 4 mm | | -50 ... +250 | -40 ... +200 | 2 | 1 | 51000932 |

PROBES WITHOUT HANDLE - PERFECT FOR OVEN AND INCUBATORS



| Name | Stem lenght | Stem diameter | Tip | Measuring range °C | Certification range °C | t ₉₀ min | Precision class | p/n |
|---------------|-------------|---------------|-----|--------------------|------------------------|---------------------|-----------------|----------|
| 3T 210 | 100 mm | Ø= 2,5 mm | | -50 ... +300 | -40... +250 | 2 | 1 | 51000952 |

MINI 1 WAY

- Data logger Single Trip
- Working range : -40...+80 °C
- Memory : 13000 savings



MAIN FEATURES

Data logger with 1 channel, IP65 protection with internal temperature sensor. Active LED (OK) and 4 LED for the 4 alarm thresholds. Start with START button. Start button used also to mark an event. Memory up to 13,000 measurements (interval 5 sec ... 24 hours). Internal battery (1 year battery life). **Working range:** -40...+80 °C. **Resolution** 0,01°C. **Temperature accuracy** ±0,3°C (-10...+80°C), ±0,5°C (-40...-10°C).

| Name | Description | Qty | p/n |
|---|--|--------|----------|
| MINI 1 WAY PREPROGRAMMED | Preprogrammed with alarm thresholds (LL = 0 °C, L = 2 °C, H = 8 °C, HH = 10 °C), 5 minute acquisition interval, STOP button not activated. | 10 pcs | 70101013 |
| MINI 1 WAY PROGRAMMABLE ON REQUEST | Provide to Giorgio Bormac alarm thresholds with delays, the acquisition interval, and the activation or not of the STOP button. | 10 pcs | 70101003 |
| NEW MINI 1 WAY LCD CON DISPLAY | Provide to Giorgio Bormac alarm thresholds with delays, the acquisition interval, and the activation or not of the STOP button. | 10 pz | 70101043 |

MINI T - T1 - TH

- Working range T : -40...+80 °C
- Working range H : 0...100 % RH
- Resolution : 0,01 °C - 0,01 % RH
- Memory : 48000 measurements



MAIN FEATURES

Temperature data logger. IP65 protection. 1 channel with internal or external sensor, and multifunction display for viewing: **current value and minimum, maximum and average temperature, time spent by the logger outside the set thresholds.** Marking an event on the logger via the Start button. Ability to store 48,000 measurements (interval 5 sec ... 24 hours). Internal battery (1 year battery life) replaceable. Start with START button with delayed start option. STOP button activated via software to manually stop the recording. USB for connection to PC.

The MINI T1 Data Logger is equipped with an external pointed steel probe, Ø 4mm L = 80mm, with 1 meter cable. Suitable for detections inside freezers.



| Name | Range | Resolution | Accuracy | p/n |
|---|---|----------------------|--|----------|
| MINI T INTERNAL TEMPERATURE SENSOR | T: - 40 ...+80 °C. | 0,01 °C | ±0,3°C (-10...+80°C) / ±0,5°C (-40...-10°C). | 70100003 |
| MINI T1 EXTERNAL TEMPERATURE SENSOR | T: - 40 ...+80 °C. | 0,01 °C | ±0,3°C (-10...+80°C) / ±0,5°C (-40...-10°C). | 70100103 |
| MINI TH INTERNAL SENSOR TEMPERATURE + HUMIDITY | T - 40 ...+80 °C. H: 10...90 % RH | 0,01 °C 0,01 % RH | T: ±0,3°C (-10...+80°C) / ±0,5°C (-40...-10°C) H: ±3%RH (+15 ... 25 °C) / ± 5% out of range | 70100203 |
| NEW MINI TB WITH PROBE | T - 200 ...+200 °C | 0,01 °C | T: ±0,3°C (-10... +130) °C / ±0.5°C (oltre) | 70100303 |
| PROBE FOR MINI TB | Pointed steel probe, Ø 4mm L = 80mm, 1 meter cable. | | | 70100313 |

SPECTROPHOTOMETERS

VIS AND UV/VIS



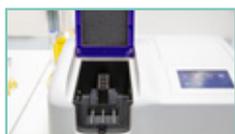
Touchscreen

A 5" TFT high definition color display for a new level of experience. Easy user interface, built-in features (photometry, quantitation, spectrum scan). In addition: File management, System Utility and Performance verification.



Connectivity and Storage

USB Flash Drive connection for data and methods storage. PC remote control, RS-232 port for printer connection. Internal memory to save methods and data.



Access and maintenance

Removable front panel, anticorrosive material cell holder, drain hole inside the sample compartment: designed to protect the instrument from accidental spills, time wear and damages.



Lamp compartment

Removable top panel for an easier and faster access to the sources compartment, for a rapid inspection of the lamps, check of alignment and lamp replacement.



Multi-language user interface

Select your preferred language to improve the interactivity with Onda Touch instruments. Available languages: English, German, Spanish, French, Italian and Portuguese.

UV-31 SCAN

- UV / VISIBLE
- Coloured Display 5" TOUCH SCREEN
- Range 190 - 1100 nm
- Bandwidth 2 nm



MAIN FEATURES

Onda UV/VISIBLE Spectrophotometer.
2 nm bandwidth, single beam, Tungsten/Deuterium sources.
Flash memory USB port, multilanguage OS.

Features: photometry, quantitation, spectrum scan, file management, performance verification.

External dimensions: (LxPxA) 456x360x185mm. Weight: 10.7 kg.
Power supply: 100 - 240 V AC - 50/60 Hz - Power consumption: 120 W.

Always supplied with: 4 optical glass cells o.p. 10mm, 2 quartz cells o.p. 10mm, 10 mm 4-cell holder, power cable, dust cover, USB flash drive and Calibration Report, **free basic software.**

| Name | Range | Bandwidth | Beam | Source | p/n |
|------------|---------------|-----------|--------|--------------------|----------|
| UV-31 SCAN | 190 - 1100 nm | 2 nm | Single | Tungsten/Deuterium | 11000082 |

V-11 SCAN

- VISIBLE
- Coloured Display 5" TOUCH SCREEN
- Range 320 - 1100 nm
- Bandwidth 4 nm



MAIN FEATURES

Onda VISIBLE Spectrophotometer.
4 nm Bandwidth, single beam, Tungsten sources
Flash memory USB port, multilanguage OS.

Features: photometry, quantitation, spectrum scan, file management, performance verification.

External dimensions: (LxPxA) 456x360x185mm. Weight: 10.5 kg
Power supply: 100 - 240 V AC, 50/60 Hz - Power consumption 75 W.

Always supplied with: 4 optical glass cells o.p. 10mm, 2 quartz cells o.p. 10mm, 10 mm 4-cell holder, power cable, dust cover, USB flash drive and Calibration Report, **free basic software.**

| Name | Range | Bandwidth | Beam | Source | p/n |
|-----------|---------------|-----------|--------|----------|----------|
| V-11 SCAN | 320 - 1100 nm | 4 nm | Single | Tungsten | 11000062 |

UV-21

- UV / VISIBLE
- Coloured Display 5" TOUCH SCREEN
- Range 195 - 1050 nm
- Bandwidth 4 nm



MAIN FEATURES

Onda UV/VISIBLE Spectrophotometer.

4 nm Bandwidth, single beam, Tungsten/Deuterium sources.

Flash memory USB port, multilanguage OS.

Features: photometry, quantitation, spectrum scan, file management, performance verification.

External dimensions: (LxPxA) 456x360x185mm. Weight: 10.7 kg.

Power supply: 100 - 240 V AC - 50/60 Hz - Power consumption: 120 W.

Always supplied with: 4 optical glass cells o.p. 10mm, 2 quartz cells o.p. 10mm, 10 mm 4-cell holder, power cable, dust cover, USB flash drive and Calibration Report, **free basic software.**

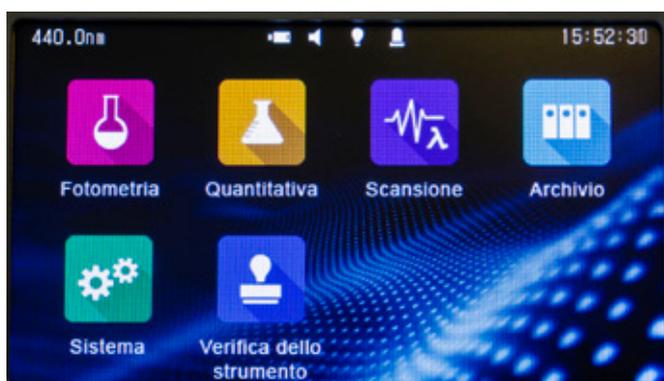
| Name | Range | Bandwidth | Beam | Source | p/n |
|-------|---------------|-----------|--------|--------------------|----------|
| UV-21 | 195 - 1050 nm | 4 nm | Single | Tungsten/Deuterium | 11000072 |

SOFTWARE EASY UV FOR ONDA TOUCH SERIES

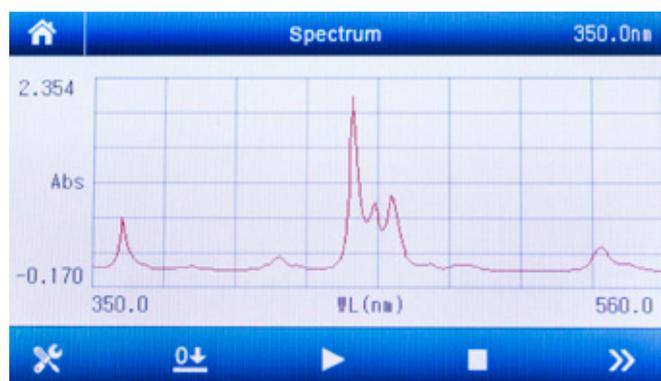
Easy UV is the application software based on Windows operating systems for the remote control of ONDA touch Series instruments. The application range, data analysis and file management function are greatly expanded, for example to clinical applications (hemoglobin oxygen saturation) and basic biotechnology research (UV methods for DNA/proteins, range DNA 0,2-70 µg/ml).

Functions:

Photometry, Quantitative, Kinetics, Multi wavelength, Spectrum scan, DNA/protein (UV methods).



Main Menu



Graphic view

ACCESSORIES

| Name | Description | p/n |
|--|--|----------|
| EASY UV SOFTWARE | Functions included:Photometry, Quantitative, Kinetics, DNA/protein, spectrum scan. Includes the installer dongle, USB cable, USB dongle usage license key, User manual | 11000972 |
| MICRO PRINTER RS 232 | Supplied with power supply, RS232 connection cable, roll of normal paper | 11000442 |
| IQ-00 MANUAL | IQ-00 paper manual for ONDA spectrophotometers. Filled in by Giorgio Bormac staff to order separately (cod. 11000959) | 11000192 |
| VISIBLE SOURCE REPLACEMENT LAMP | VISIBLE range source. Tungsten-Halogen lamp. Vertical filament. | 11000912 |
| VISIBLE SOURCE REPLACEMENT LAMP | VISIBLE range source. Tungsten-Halogen lamp. Horizontal filament. | 11000942 |
| UV SOURCE REPLACEMENT LAMP | UV range source. Deuterium lamp. | 11000922 |
| ADAPTOR TUBES 1 mm | Adaptor 10x10 for optical path tubes 1 mm Min. quantity order: 2 pcs | 11000582 |
| DUST COVER | for ONDA spectrophotometer | 11000932 |

SUPPORTS

| Description | | p/n |
|--|--|----------|
| 4 position cell holder for up to 10mm square cuvettes |  | 11000202 |
| 4 position cell holder for up to 50mmx10mm square cuvettes |  | 11000212 |
| 4 position cell holder for up to 100mmx10mm square cuvettes |  | 11000222 |
| Single position cell holder for micro-cells 10mmx10mm (central beam height: 15mm) |  | 11000232 |
| 5° Reflectance measurements Support (minimum sample: 20mmx20mmx4mm, central beam height: 50mm) |  | 11000412 |
| Single position Solid sample holder (dimensions 50x30x2mm) |  | 11000422 |
| 8 position automatic cell holder for up to 10 mm optical path square cuvettes |  | 11000242 |
| 5 position automatic cell holder for 10mm-100mm optical path cuvettes |  | 11000432 |
| Test tube holder Ø 16mm, max height: 90mm, central beam height: 45mm |  | 11000532 |

OPTICAL GLASS CELLS FOR VISIBLE - RANGE 320 - 1400 nm

| Description | Dimensions (W x L x H) mm | Volume ml | p/n |
|--|------------------------------|--------------|----------|
| Square cuvettes, optical glass, optical path o.p. 1mm. Set of 2 pcs | 12,5 x 3,5 x 45 | 0,4 | 11000382 |
| Square cuvettes, optical glass, optical path o.p. 10mm. Set of 4 pcs | 12,5 x 12,5 x 45 | 3,5 | 11000252 |
| Square cuvettes, optical glass, optical path o.p. 20mm. Set of 4 pcs | 12,5 x 22,5 x 45 | 7 | 11000262 |
| Square cuvettes, optical glass, optical path o.p. 30mm. Set of 4 pcs | 12,5 x 32,5 x 45 | 10,5 | 11000272 |
| Square cuvettes, optical glass, optical path o.p. 50mm. Set of 4 pcs | 12,5 x 52,5 x 45 | 17,5 | 11000282 |
| Square cuvettes, optical glass, optical path o.p. 100mm. Set of 4 pcs | 12,5 x 102,5 x 45 | 35 | 11000292 |
| Glass flow cuvette, optical path o.p. 10mm (beam height 15mm). Single position cell holder for micro-cells is required p/n 11000232 | 12,5 x 12,5 x 45 | 0,7 | 11000492 |

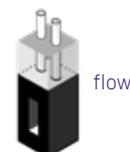
QUARTZ CELLS FOR UV - RANGE 190 - 1400 nm

| Description | Dimensions (W x L x H) mm | Volume ml | p/n |
|--|------------------------------|--------------|----------|
| Square cuvettes, quartz, optical path o.p. 1mm. 1 pc | 12,5 x 3,5 x 45 | 0,4 | 11000522 |
| Square cuvettes, quartz, optical path o.p. 10mm. Set of 2 pcs | 12,5 x 12,5 x 45 | 3,5 | 11000302 |
| Square cuvettes, quartz, optical path o.p. 20mm. Set of 2 pcs | 12,5 x 22,5 x 45 | 7 | 11000312 |
| Square cuvettes, quartz, optical path o.p. 30mm. Set of 2 pcs | 12,5 x 32,5 x 45 | 10,5 | 11000322 |
| Square cuvettes, quartz, optical path o.p. 50mm. Set of 2 pcs | 12,5 x 52,5 x 45 | 17,5 | 11000332 |
| Square cuvettes, quartz, optical path o.p. 100mm. Set of 2 pcs | 12,5 x 102,5 x 45 | 35 | 11000342 |



SPECIAL CELLS- MICRO-CELLS HOLDER REQUIRED Part. No.11000232

| Description | Dimensions (W x L x H) mm | Volume μ l | p/n |
|--|------------------------------|-------------------|----------|
| MICRO-cell, quartz, optical path o.p. 10mm | 12,5 x 12,5 x 45 | 100 | 11000352 |
| MICRO-cell, quartz, optical path o.p. 10mm | 12,5 x 12,5 x 45 | 200 | 11000362 |
| MICRO-cell, quartz, optical path o.p. 10 mm | 12,5 x 12,5 x 45 | 500 | 11000372 |
| MICRO-cell, quartz, optical path o.p. 10mm | 12,5 x 12,5 x 45 | 1000 | 11000392 |
| FLOW-cell, optical glass, optical path 10 mm (central beam height:15 mm) | 12,5 x 12,5 x 45 | 700 | 11000492 |
| FLOW-cell, quartz, optical path 10mm (central beam height:15 mm) | 12,5 x 12,5 x 45 | 700 | 11000502 |



SIPPER and PELTIER SYSTEM



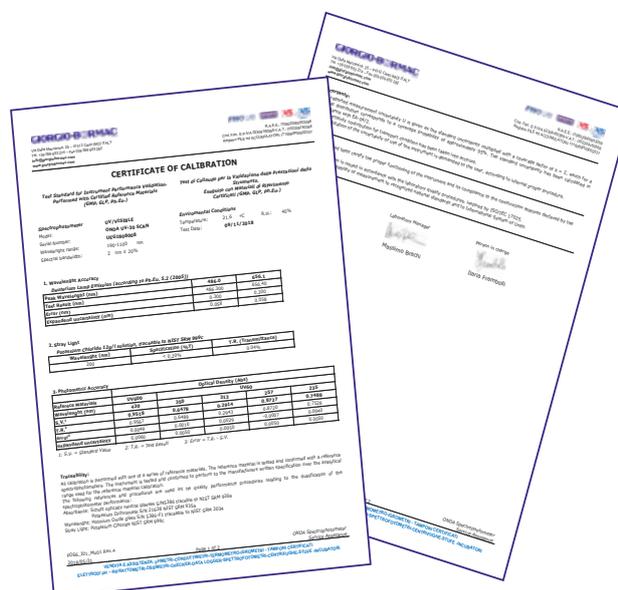
| Name | Description | p/n |
|---|--|----------|
| SIPPER A-1101 FLOWING SYSTEM | Flow cell system, complete with external unit, power cable, support for micro-cells, flow cell, silicone flushing pipes, adjustable flow rate from 1 to 8 ml/min. Outer dimensions (WxLxH) 270x170x115mm. Weight 3 kg. Power supply 40 V AC, 50/60 Hz. | 11000552 |
| PELTIER A-1201 THERMOSTATIC SYSTEM | System for constant temperature selectable range 10-60°C, complete with external unit, power cable, connection cable, thermostatic finned special support micro-cells, micro cell. Outer dimensions (WxLxH) 270x170x115mm. Weight 3 kg. Power Supply 240 V AC, 50/60 Hz. | 11000562 |
| SIPPER / PELTIER A-1001 COMBINED SYSTEM | Selectable constant temperature and flow cell system. Range 10-60°C, adjustable flow rate from 1 to 8 ml/min. Complete with external unit, power cable, connection cable, thermostatic finned special support micro-cells, flow cell, silicone flushing pipes. Outer dimensions (WxLxH) 270x170x115mm. Weight 3 kg. Power supply 240 V AC, 50/60 Hz. | 11000572 |

CALIBRATION REPORT

All Onda spectrophotometers are supplied with a calibration report performed according to ISO 17025 requirements, to measure with traceability.

On the calibration report are reported:

- **WAVELENGTH ACCURACY**
- **PHOTOMETRIC ACCURACY**
- **STRAY LIGHT TEST**
- **MEASUREMENT UNCERTAINTY**
- **TRACEABILITY STATEMENT**



V-10 PLUS

- VISIBLE
- Range 325 - 1000 nm
- Bandwidth 4 nm



MAIN FEATURES

VISIBLE Spectrophotometer.

Single beam optical system, 4 nm bandwidth, Source: Tungsten. LCD Display, membrane keypad.

Spectral Resolution 0,1 nm, Photometric accuracy $\pm 0,5\%T$,

Photometric accuracy $\pm 0,3\%T$.

Photometric Range 0...200%T, -0,3...3Abs, 0...1999Conc.

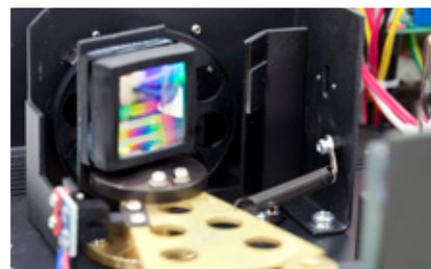
Functions: Transmittance, Absorbance, Concentration, Coefficients.

Outer dimensions (WxLxH) 490x360x210mm. Weight 12 kg.

Power supply 100 - 240 V AC, 50/60 Hz. Power consumption 75 W.

Provided with: Basic PC Software including the methods: Absorbance, Transmittance, Working Curve, Coefficient Method, Kinetics measurements.

Supplied with: 4 position sled cell holder for 10mm cuvettes, 4 optical glass square cuvettes optical path 10mm, EU power cable, Basic Software, dust cover, calibration report.



Monochromatic: grid from 1200 lines/mm

| Name | Range | Bandwidth | Beam | Source | p/n |
|------------------|---------------|-----------|--------|----------|----------|
| V-10 PLUS | 325 - 1000 nm | 4 nm | Single | Tungsten | 11000052 |

ACCESSORIES FOR V-10 PLUS

| Name | Description | p/n |
|--|--|----------|
| PRO-WINE SOFTWARE | Software for V-10 PLUS (Includes the installer CD, USB cable, USB dongle usage license key, User manual). Necessary PC with Windows operating system and two USB ports. | 11000962 |
| MICRO PRINTER RS 232 | Thermal paper, supplied with power supply, connection cable, paper roll | 11000452 |
| MANUAL IQ-00 | Paper manual IQ-00 for ONDA spectrophotometer. Filled in by Giorgio Bormac staff to order separately (part no. 11000959) | 11000192 |
| VISIBLE SOURCE REPLACEMENT LAMP | VISIBLE range Source. Tungsten-Halogen Lamp. | 11000912 |
| ADAPTOR TUBES 1mm | Adaptor 10x10 for optical path tubes 1 mm Min. quantity order: 2 pcs | 11000582 |

SUPPORTS

| Description | p/n |
|--|----------|
| 4 position cell holder for up to 10mmx10mm square cuvettes | 11000202 |
| 4 position cell holder for up to 50mmx10mm square cuvettes | 11000212 |
| 4 position cell holder for up to 100mmx10mm square cuvettes | 11000222 |
| Single position cell holder for micro-cells 10mmx10mm (central beam height: 15mm) | 11000232 |
| Test tube holder (Ø 16mm, max height: 90mm, central beam height: 45mm) | 11000402 |
| 5° Reflectance measurements Support (minimum sample: 20mmx20mmx4mm, central beam height: 50mm) | 11000412 |
| Single position Solid sample holder (dimensions 50x30x2mm) | 11000422 |

CUVETTES FOR VISIBLE - RANGE 335 - 2500 nm

| Description | Dimensions (W x L x H) mm | Volume ml | p/n |
|--|------------------------------|--------------|----------|
| Square cuvettes, optical glass, optical path o.p. 1mm. Set of 2 pcs | 12,5 x 3,5 x 45 | 0,4 | 11000382 |
| Square cuvettes, optical glass, optical path o.p. 10mm. Set of 4 pcs | 12,5 x 12,5 x 45 | 3,5 | 11000252 |
| Square cuvettes, optical glass, optical path o.p. 20mm. Set of 4 pcs. | 12,5 x 22,5 x 45 | 7 | 11000262 |
| Square cuvettes, optical glass, optical path o.p. 30mm. Set of 4 pcs | 12,5 x 32,5 x 45 | 10,5 | 11000272 |
| Square cuvettes, optical glass, optical path o.p. 50mm. Set of 4 pcs. | 12,5 x 52,5 x 45 | 17,5 | 11000282 |
| Square cuvettes, optical glass, optical path o.p. 100mm. Set of 4 pcs | 12,5 x 102,5 x 45 | 35 | 11000292 |
| Glass flow cuvette, optical path o.p. 10mm (beam height 15mm). Single position cell holder for micro-cells is required p/n 11000232 | 12,5 x 12,5 x 45 | 0,7 | 11000492 |



1 mm



10 mm



20 mm



30 mm



50 mm



100 mm



ONDA brochure is available on our website
www.xsinstruments.com

REFRACTOMETERS

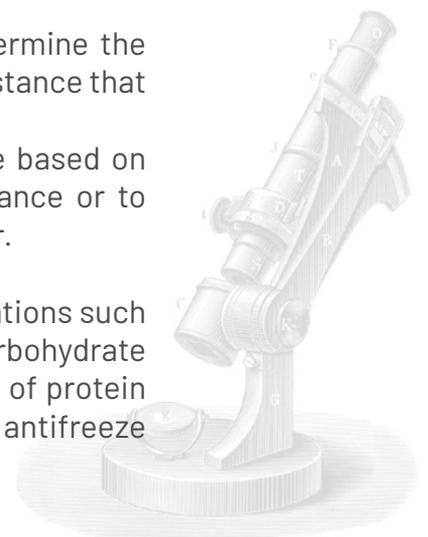
WARRANTY
2
YEARS



A refractometer is an optical measuring instrument used to determine the refractive index of a substance, or some physical property of a substance that is directly related to its refractive index.

It can be used to establish the identity of an unknown substance based on its refractive index, to establish the purity of a particular substance or to determine the concentration of one substance dissolved in another.

Commonly the refractometers are used to measure fluid concentrations such as the sugar content (Brix level) of fruits, vegetables, juices and carbohydrate drinks or for cutting fluids, specific gravity of urine, concentration of protein in the blood, degree of moisture in the honey (myelometer), salinity, antifreeze properties, industrial fluids.



DBR 95

- Measuring range 0,0..95,0 % Brix
- Simultaneous display of brix, temperature and refractive index

MAIN FEATURES

Portable and benchtop digital refractometer.

Automatic temperature compensation.

Self-calibrating system with water.

Sample volume 1ml.

Programmable MIN/MAX alarm threshold.

3,7 V rechargeable battery power.

Working range

BRIX= 0,0..95,0 % Brix ($\pm 0,3$ %),

Refractive index = 1,3330...1,5318 nD,

Temperature = 0..40 °C ($\pm 0,1$ °C).



Always equipped with:

Carrying case, power supply and USB cable, user manual.

| Name | Description | Measuring range | Accuracy | p/n |
|--------|--------------------------------|-----------------|-------------|----------|
| DBR 95 | Benchtop digital refractometer | 0 - 95 % Brix | $\pm 0,3$ % | 44000063 |

DBR 55 / DBR SAL

- Measuring range: 0,0..55,0 % Brix
- Salinity measuring range: 0,0..28,0 % NaCl

MAIN FEATURES

Portable and benchtop watertight digital refractometer.

Backlit display.

Automatic temperature compensation 10,0..60,0 °C.

Self-calibrating system with water. Sample volume 0,5 ml.

Rubber cover and hard case.

Power supply 2 x 1,5 V (AAA Alkaline).

Dimensions 58 x 36 x 122 mm. Weight 150 g.



| Name | Description | Measuring range | Accuracy | p/n |
|----------|--------------------------------|------------------|-------------|----------|
| DBR 55 | Benchtop digital refractometer | 0,0..55,0 % Brix | $\pm 0,2$ % | 44000073 |
| DBR SALT | Salinity digital refractometer | 0,0..28,0 % Brix | $\pm 0,2$ % | 44000053 |

DBR WINE

○ Measuring range: 0,0..55,0 % Brix

MAIN FEATURES

Portable and benchtop watertight digital refractometer.
 Backlit display.
 Automatic temperature compensation 10,0..60,0 °.
 Self-calibrating system with water. Sample volume 0,5 ml.
 Rubber cover and hard case.
 Power supply 2 x 1,5 V (AAA Alkaline).
 Dimensions 58 x 36 x 122 mm. Weight 150 g.



| RANGE | Measuring range | Resolution |
|--------------|-----------------|------------|
| Brix | 0.0 ~ 55.0% | 0,1 % |
| Temperature | 0°C ~ 70°C | 0,1 % |
| Bé (Baumé) | 0.0° ~ 29.8° | 0,1 % |
| Babo | 0.0° ~ 46.4° | 0,1 % |
| Oe (Oechsle) | 0° ~ 256° | 1 % |
| TAVP * | 0.0% ~ 37,9% | 0,1 % |

* ALCOHOL CONTENT BY VOLUME

| Name | Description | Measuring range | Accuracy | p/n |
|----------|--------------------------------|------------------|----------|----------|
| DBR WINE | Benchtop digital refractometer | 0,0..55,0 % Brix | ±0,2 % | 44000093 |

DBR COFFEE

App HMCoffee



○ Measuring range 0,0..26,0 % Brix

○ Bluetooth connection: downloadable App for data storage.

MAIN FEATURES

Portable and benchtop watertight digital refractometer.
 Backlit display.
 Automatic temperature compensation 10,0..60,0 °C.
 Self-calibrating system with water. Sample volume 0,5 ml.
 Rubber cover and hard case.

Power supply 2 x 1,5 V (AAA Alkaline).
 Dimensions 58 x 36 x 122 mm. Weight 150 g.

Measuring range

BRIX = 0,00..26,00 % Brix (±0,2 %),
 TDS = 0,00..23,00 % TDS (±0,1 %),
 Temperature = 0..70 °C (±0,1 °C).

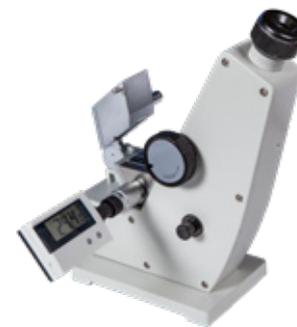


| Name | Description | Measuring range | Accuracy | p/n |
|------------|--------------------------------|------------------|----------|----------|
| DBR COFFEE | Benchtop digital refractometer | 0,0..26,0 % Brix | ±0,2 % | 44000083 |

OPTICAL REFRACTOMETERS



Lid with led



mod. 110 - ABBE

All refractometers are supplied with hard case and calibration screwdriver.

| Model | Measuring range | Features | p/n |
|---|---|---|----------|
| 110 ABBE | Brix: 0,0 - 95,0 % ($\pm 0,25\%$) nD: 1,3000 - 1,7000 ($\pm 0,0002$) | Bench refractometer with thermostatable prism. Complete with digital thermometer and calibration prism | 43000133 |
| THERMOMETER DIGITAL FOR ABBE | Replacement thermometer for Abbe 110 | | 43000153 |

| Model | Measuring range (% BRIX) | Features | p/n |
|---|---|--|----------|
| 101 | Brix: 0-32 % ($\pm 0,2\%$) | | 43000013 |
| 101 ATC | Brix: 0-32 % ($\pm 0,2\%$) | Automatic temperature compensation | 43000103 |
| 101 ATC LED | Brix: 0-32 % ($\pm 0,2\%$) | Automatic temperature compensation | 43000203 |
| 102 | Brix: 28-62% ($\pm 0,2\%$) | | 43000023 |
| 103 | Brix: 0-80 % ($\pm 0,5\%$) | | 43000033 |
| 103 LED | Brix: 0-80 % ($\pm 0,5\%$) | | 43000223 |
| 104 HONEY | Brix : 58-92% Water : 12-27% Be : 38-43° | Triple scale | 43000043 |
| 105 CLINIC | Serum : 0-12 g/dL Urine specific gravity:1000 - 1050 nD Refraction index:1,3330 - 1,3600 | Triple scale | 43000053 |
| 106 SALINITY | Sodium Chloride: 0-28% ($\pm 0,2\%$) | | 43000063 |
| 106 ATC SALINITY | Sodium Chloride: 0-100 ‰ Specific gravity: 1000-1070 | Double scale Automatic temperature compensation | 43000113 |
| 107 ATC WINE | Brix: 0-35 % Babo: 0-28% | Double scale Automatic temperature compensation | 43000123 |
| 107 ATC LED WINE | Brix: 0-35 % Babo: 0-28% | Double scale Automatic temperature compensation | 43000233 |
| 414 ATC ANTIFREEZE BATTERIES | Ethylene glycol: -50 °C / 0 °C Propylene glycol: -50 °C / 0 °C Cleaner: -40 °C / 0 °C Batteries fluid: 1.10 / 1.40 sg. | Automatic temperature compensation | 43000173 |
| UREA | Brix: 0-40 % | Signal mark at 32% Brix | 43000193 |

| Accessories | | p/n |
|-------------------------|---|----------|
| LID | Spare part lid for telescope refractometers without lighting | 43000163 |
| LID WITH LED | Spare part lid with LED lighting It allows a perfect reading even if there's no or low lighting The cover is interchangeable and can be installed on all the optical refractometers models. | 43000003 |

INDEX BY CODE

| p/n | DESCRIPTION | | NOTE |
|----------|---|-----|------|
| 11000052 | ONDA V-10 PLUS Spectrophotometer, range 325 - 1000 nm, bandwidth 4 nm, single beam, digital wavelength set | 129 | |
| 11000062 | ONDA TOUCH V-11 SCAN Spectrophotometer, TOUCH SCREEN color display, range 320 - 1100 nm, bandwidth 4 nm | 124 | |
| 11000072 | ONDA TOUCH UV-21 Spectrophotometer, TOUCH SCREEN color display, range 195 - 1050 nm, bandwidth 4 nm | 125 | |
| 11000082 | ONDA TOUCH UV-31 SCAN Spectrophotometer, TOUCH SCREEN color display, range 190 - 1100 nm, | 124 | |
| 11000192 | IQ-OQ-PQ Paper Manual | 126 | |
| 11000212 | 4-cell holder for up to 50x10mm square cuvette | 126 | |
| 11000222 | 4-cell holder for up to 100x10mm square cuvette | 126 | |
| 11000232 | Cell holder for micro-cells 10x10mm (central beam height: 15mm) | 126 | |
| 11000242 | 8-position AUTO cell changer for 10mm square cuvette | 126 | |
| 11000252 | Square cuvettes, optical glass, 10mm path, 12.5x12.5x45mm. Set of 4 pcs | 127 | |
| 11000262 | Square cuvettes, optical glass, 20mm path, 12.5x22.5x45mm. Set of 4 pcs | 127 | |
| 11000272 | Square cuvettes, optical glass, 30mm path, 12.5x32.5x45mm. Set of 4 pcs | 127 | |
| 11000282 | Square cuvettes, optical glass, 50mm path, 12.5x52.5x45mm. Set of 4 pcs | 127 | |
| 11000292 | Square cuvettes, optical glass, 100mm path, 12.5x102.5x45mm. Set of 4 pcs | 127 | |
| 11000302 | Square cuvettes, quartz, 10mm path, 12.5x12.5x45mm. Set of 2 pcs | 127 | |
| 11000312 | Square cuvettes, quartz, 20mm path, 12.5x22.5x45mm. Set of 2 pcs | 127 | |
| 11000322 | Square cuvettes, quartz, 30mm path, 12.5x32.5x45mm. Set of 2 pcs | 127 | |
| 11000332 | Square cuvettes, quartz, 50mm path, 12.5x52.5x45mm. Set of 2 pcs | 127 | |
| 11000342 | Square cuvettes, quartz, 100mm path, 12.5x102.5x45mm. Set of 2 pcs | 127 | |
| 11000352 | Micro-cell 100 µl, quartz, 10mm | 127 | |
| 11000362 | Micro-cell 200 µl, quartz, 10mm | 127 | |
| 11000372 | Micro-cell 500 µl, quartz, 10mm | 127 | |
| 11000382 | Square cuvettes, optical glass, 1mm path, 12.5x3.5x45mm. Set of 2 pcs | 127 | |
| 11000392 | Micro-cell 1000 µl (1ml), quartz, 10mm | 127 | |
| 11000402 | Test tube holder (diameter 8-24mm; max height: 110mm; central beam height: 35mm) | 130 | |
| 11000412 | 5° REFLECTANCE MEASUREMENT ATTACHMENT (minimum sample: 20x20mm, central beam height: 50mm) | 130 | |
| 11000422 | SOLID sample holder (sample 50x30x2mm) | 130 | |
| 11000432 | 5 position 10-100mm cuvette AUTOMATIC holder (for ONDA TOUCH SERIES spectrophotometers) | 126 | |
| 11000442 | Micro Printer for ONDA TOUCH Series Spectrophotometers (RS232, normal paper roll) | 126 | |
| 11000452 | Thermal printer for ONDA spectrophotometer V10 PLUS | 129 | |
| 11000492 | Flow cell, 10mm, optical GLASS (central beam height: 15mm) | 127 | |
| 11000502 | Flow cell, 10mm, QUARTZ (central beam height: 15mm) | 127 | |
| 11000522 | Square cuvette, quartz, 1mm path, 12.5x3.5x45mm, 1 piece | 127 | |
| 11000532 | Test tube holder (diameter 16mm H max 90mm) for ONDA TOUCH SERIES | 126 | |
| 11000552 | A-1101 Sipper System, Holder beam height: 15mm, including: pump unit, micro-cell holder, flow cell, pipes. | 128 | |
| 11000562 | A-1201 Peltier System, constant-Temperature (Holder beam height: 15mm), including: Peltier unit, peltier micro-cell | 128 | |
| 11000572 | A-1001 Combined Peltier/Sipper System (Holder beam height: 15mm), including: Peltier/sipper unit, peltier micro | 128 | |
| 11000582 | Adapter 10X10 for cuvettes 1 mm path. Minimum order 2 pieces | 129 | |
| 11000912 | Tungsten-halogen lamp, 12V/20W (VISIBLE range) | 129 | |
| 11000922 | Deuterium lamp (UV range) | 126 | |
| 11000932 | Dust cover for ONDA spectrophotometer | 126 | |
| 11000962 | ONDA PC Software Pro-WINE color Version (CD, USB cable, USB dongle) ONLY FOR V-10 PLUS | 129 | |
| 11000972 | ONDA TOUCH PC Software Pro (CD, USB cable, USB dongle) FOR ONDA TOUCH models | 126 | |
| 15100053 | Argo-Filler, up to 8 speed selectable | 92 | |
| 15100573 | Filters for Argo-Filler, 1X10 pieces | 92 | |
| 22002013 | M2-A Magnetical Stirrer with heating, stainless steel plate, capacity 20 liters. Speed: up to 1.500 RPM | 84 | |
| 22002063 | M2-D Pro Digital magnetical stirrer with heating stainless steel plate. Capacity 20 liters, speed: up to 1.500 RPM | 84 | |

| p/n | DESCRIPTION | | NOTE |
|----------|---|----|------|
| 22002513 | PT 1000 temperature probe for M2- D Pro and for M3-D | 85 | |
| 22002523 | Support for PT 1000 temperature probe | 85 | |
| 22002533 | Plastic Cover for Protection | 85 | |
| 22002583 | Blue carrying plate for quarter pies | 85 | |
| 22002593 | Red quarter pie for n. 11 tubes 4 ml, diam. 15,2 mm. | 85 | |
| 22002603 | Violet quarter pie for n. 4 tubes 20 ml, diam. 28 mm. | 85 | |
| 22002613 | Blue quarter pie for n. 4 tubes 30 ml, diam. 28 mm. | 85 | |
| 22002623 | Black quarter pie for n. 4 tubes 40 ml, diam. 28 mm | 85 | |
| 22002633 | Green quarter pie for n. 6 tubes 8 ml, diam. 17,8 mm. | 85 | |
| 22002643 | Gold quarter pie for n. 4 tubes 16 ml, diam. 21,6 mm. | 85 | |
| 22002663 | Reaction block for 100 ml round bottom flask | 85 | |
| 22002673 | Reaction block for 250 ml round bottom flask | 85 | |
| 22002683 | Reaction block for 500 ml round bottom flask | 85 | |
| 22003013 | M3-D Digital magnetical stirrer with heating ceramic plate, capacity 10 liters. Speed: up to 1.500 RPM | 84 | |
| 22005013 | AM 20-D Overhead stirrer, capacity 20 Liters, LED display. Speed adjustable from 50 to 2.200 RPM. | 86 | |
| 22005043 | AM 40-D Overhead stirrer, capacity 40 Liters, LCD display. Speed adjustable from 50 to 2.200 RPM. | 86 | |
| 22005153 | Support for Overhead stirrer AM 20-D and AM 40-D | 86 | |
| 22005163 | Crossed stirrer, shaft length 400 mm, stirrer diameter 50mm | 86 | |
| 22005173 | Straight stirrer, shaft length 400 mm, stirrer diameter 60mm | 86 | |
| 22005183 | Blade stirrer, shaft length 400 mm, stirrer diameter 68mm | 86 | |
| 22005193 | Centrifugal stirrer, shaft length 400 mm, stirrer diameter 89mm | 86 | |
| 22006013 | SKO-D XL Orbital shaker, capacity 7.5 Kg, plate 320X320 mm, double display for speed and timer control | 88 | |
| 22006023 | SKO-D-XL 3D Shaker, capacity 5 Kg, plate 320X320 mm, double display for speed and timer control | 88 | |
| 22006033 | SKO-D-XL LINEAR Shaker capacity 7.5 Kg, plate 320X320 mm, double display for speed and timer control | 88 | |
| 22006223 | Dish platform with non-slip mat. | 88 | |
| 22006233 | Universal support for orbital shaker with 4 roll. | 88 | |
| 22006243 | Support for fixing clip | 88 | |
| 22006453 | Fixing clip for 25 ml | 88 | |
| 22006463 | Fixing clip for 50 ml | 88 | |
| 22006473 | Fixing clip for flask 100 ml | 88 | |
| 22006483 | Fixing clip for flask 200/250 ml | 88 | |
| 22006493 | Fixing clip for flask 500 ml | 88 | |
| 22006553 | Bar for Universal support | 88 | |
| 22008013 | Mixer Vortex for tubes with "touch" and continue control speed | 87 | |
| 27000113 | BL 3001, digital balance, max. capacity 3000 g, resolution 0,1 g, counting samples function, various units measure | 66 | |
| 27000123 | BL 6001, digital balance, max. capacity 6000 g, resolution 0,1 g, counting samples function, various units measure | 66 | |
| 27000133 | BL 30K1, digital balance, max. capacity 30 kg, resolution 0,1 g, counting samples function, various units measure. | 68 | |
| 27000293 | BL 6001 BASIC, digital balance, max. capacity 6000 g, resolution 0,1 g, counting samples function | 67 | |
| 27000303 | BL 2002 BASIC, digital balance, max. capacity 2000 g, resolution 0,01 g, counting samples function | 67 | |
| 27000313 | BL 2002, digital balance, max. capacity 2000 g, resolution 0,01 g, counting samples function, various units measure | 66 | |
| 27000323 | BL 602, digital balance, max. capacity 600 g, resolution 0,01 g, counting samples function, various units measure | 65 | |
| 27000513 | BL 303, digital balance, max. capacity 300 g, resolution 0,001 g, counting samples function, various units measure | 65 | |
| 27000803 | Dust soft Cover for XS Balances | 70 | |
| 27000813 | Class M1 Weight of 100 g for XS Balances | 70 | |
| 27000823 | Class M1 Weight of 1000 g for XS Balances | 70 | |
| 27000863 | Printer RS 232 for XS Balances | 70 | |
| 27000883 | Set of 50 sample plates | 69 | |

| p/n | DESCRIPTION | | NOTE |
|----------|--|----|------|
| 27000903 | Certificate DKD/Accredia Treceability for XS Balances | 70 | |
| 27001003 | BW 3000 WATERPROOF, digital balance double display, max. capacity 3000 g, resolution 1 g | 69 | |
| 27001203 | BL 30K, digital balance, max. capacity 30 kg, resolution 1 g, counting samples function, various units measure. | 68 | |
| 27001213 | BL 100K, digital balance with removable display, max. capacity 100 kg, resolution 10 g, counting samples function | 68 | |
| 27001303 | BM 113, digital MOISTURE balance, max. capacity 110 g, resolution 0,001 g, halogen lamp 400 W, 15 drying programs. | 69 | |
| 27005993 | BL 224 BASIC, digital balance, max. capacity 220 g, resolution 0,1 mg, external calibration, counting samples function | 64 | |
| 27006003 | BL 224, digital balance, max. capacity 220 g, resolution 0,1 mg, internal calibration, counting samples function | 64 | |
| 27006013 | BL 224 TOUCH, digital balance touch screen display, max. capacity 220 g, resolution 0,1 mg, internal calibration | 64 | |
| 32105102 | ORP electrode for pH 7 and pH 70, cable lenght 5 mt BNC plug | 10 | |
| 32105223 | pH GEL electrode plastic body for pH 7 and pH 70, cable lenght 1 mt BNC | 10 | |
| 32105302 | ORP electrode for pH 7 and pH 70, cable lenght 1 mt BNC plug | 10 | |
| 32200103 | pH electrode mod. 201 T DHS with temp. 1 mt BNC cable | 39 | |
| 32200113 | pH electrode mod. 2 PORE T DHS, Cable fix / BNC, with temperature sensor NTC 30 | 39 | |
| 32200123 | pH electrode mod. Standard T BNC DHS with temp. 1 mt BNC cable | 39 | |
| 32200133 | pH digital electrode mod. FLOW TEMP DHS, S7 cable fix/BNC | 39 | |
| 32200143 | pH digital electrode mod. 2 PORE F DHS, Cable fix / BNC, with temperature sensor | 39 | |
| 32200153 | pH electrode mod. 201 T DHS temperature sensor in-build, cable lenght 3 mt BNC/Cinch plug | 35 | |
| 32200203 | pH electrode mod. GEL, S7 head, for general application | 41 | |
| 32200213 | pH electrode mod. MICRO, S7 head, Electrolyte KCl 3M, for small volume s | 42 | |
| 32200223 | XS Polymer S7 pH electrode | 41 | |
| 32200233 | ORP electrode mod. STANDARD ORP, range mV \pm 2000 mV, temp. -10...+100 °C, S7 head, Platinum ring for ORP/Redox | 46 | |
| 32200243 | pH electrode mod. FOOD SLIM, S7 head | 43 | |
| 32200253 | pH electrode mod. MICRO P, S7 head, Electrolyte Glycerine KCl 3M | 42 | |
| 32200263 | pH electrode mod. STANDARD BNC, Cable fix / BNC, for general application | 40 | |
| 32200273 | pH electrode mod. STANDARD DIN, Cable fix / DIN, for general application | 40 | |
| 32200283 | pH electrode mod. 2 PORE SLIM, S7 head | 43 | |
| 32200293 | pH electrode mod. 2 PORE F, S7 head | 44 | |
| 32200303 | pH electrode mod. 2 PORE K complete, S7 head, with knife | 44 | |
| 32200313 | pH electrode mod. 2 PORE STEEL T, Cable fix / BNC, with temperature sensor NTC 30 | 44 | |
| 32200323 | pH electrode mod. 2 PORE T, Cable fix / BNC, with temperature sensor NTC 30 K Ω plug | 43 | |
| 32200333 | pH electrode mod. 2 PORE, range pH 0...14, temp.0...+60 °C, S7 head | 43 | |
| 32200343 | pH electrode mod. 2 PORE K without knife, range pH 0...14, temp. 0...+60 °C, S7 head, without knife | 44 | |
| 32200353 | Blade for 2 PORE K | 44 | |
| 32200363 | XS Standard pH electrode | 40 | |
| 32200373 | pH electrode mod. FLOW, range pH 0...14, temp. -10...+80 °C, S7 head, for viscous sample and low ion media | 41 | |
| 32200383 | pH electrode mod. SEMI MICRO, range pH 0...14, temp. -10...+100 °C, S7 head, for test tube measurements | 42 | |
| 32200393 | pH electrode mod. FOOD, range pH 0...14, temp.-10...+100 °C, S7 head, Glycerine KCl electrolyte | 43 | |
| 32200403 | pH electrode mod. ZAVATRODE, S7 head, for cheese measurements | 43 | |
| 32200413 | pH electrode mod. FLAT, S7 head, for surface measurements e. g. paper | 42 | |
| 32200423 | pH electrode mod. STANDARD HA, S7 head, for Minimal alkali error | 40 | |
| 32200433 | pH electrode mod. STANDARD HF, S7 head, for sample with HF (0,01M/200 mg/l) | 40 | |
| 32200443 | pH electrode mod. POLYMER TIP, S7 head, 2 Diaphragm open pore | 41 | |
| 32200453 | pH electrode mod. MICRO SPECIAL, S7 head, for measure in NMR tube | 42 | |
| 32200463 | pH electrode mod. STANDARD T DIN, Cable fix / DIN, with temperature sensor | 40 | |
| 32200473 | pH electrode mod. STANDARD T-BNC, Cable fix / BNC, with temperature sensor | 40 | |
| 32200483 | ORP electrode mod. STANDARD Ag, S7 head, Silver tip | 46 | |
| 32200493 | pH electrode mod. POLYMER PLAST , S7 head | 45 | |

| p/n | DESCRIPTION | | NOTE |
|----------|---|----|------|
| 32200503 | pH electrode mod. POLYMER PLAST BNC, Cable fix / BNC | 45 | |
| 32200513 | pH electrode mod. POLYMER PLAST DIN, Cable fix / DIN | 45 | |
| 32200523 | STANDARD KF, S7 head, double platinum pin for KF and SO ₂ titrations | 46 | |
| 32200643 | pH electrode mod. 2 PORE STEEL T DIN , Cable fix / DIN, with temp. sensor NTC 30 | 44 | |
| 32200663 | ORP electrode mod. Plast ORP, S7 head, Platinum pin for ORP/Redox | 46 | |
| 32200673 | ORP electrode mod. Plast ORP BNC Cable fix / BNC, Platinum pin for ORP/Redox | 46 | |
| 32200703 | pH electrode mod. 2 PORE F Temp BNC, Cable fix / BNC, with temp. sensor NTC 30 | 44 | |
| 32200713 | pH electrode mod. 2 PORE F Temp DIN, Cable fix / DIN, with temperature sensor PT 1000 | 44 | |
| 32200723 | pH electrode mod. FLOW Temp BNC ,Cable fix / BNC, with temperature sensor | 41 | |
| 32200733 | pH electrode mod. FLOW Temp DIN , Cable fix / DIN, with temperature sensor | 41 | |
| 32208003 | 3M KCl XS Sensor Electrolyte solution, package 55ml | 45 | |
| 32208013 | 3M KCl XS Sensor Electrolyte solution, package 500ml | 45 | |
| 32208023 | GLYCERIN-KCl XS Sensor Electrolyte solution, package 55 ml | 45 | |
| 32208033 | KN03 1M Electrolyte solution for XS Sensor STANDARD Ag, package 55 ml | 45 | |
| 32208043 | XS Sensor STORAGE Solution, package 55 ml | 45 | |
| 32208053 | XS Sensor STORAGE Solution, package 500 ml | 45 | |
| 32208063 | PROTEIN CLEANING Solution (pepsin) for XS Sensor, package 55 ml | 45 | |
| 32208073 | DIAPHRAGM CLEANING solution (thiourea) for XS Sensor, package 55 ml | 45 | |
| 32208083 | REGENERATION Solution for XS Sensor pH electrode, package 55 ml | 45 | |
| 32208093 | PROTEIN CLEANING Solution (pepsin) for XS Sensor, bottle 250 ml | 45 | |
| 32208103 | DIAPHRAGM CLEANING solution (thiourea) for XS Sensor, bottle 250 ml | 45 | |
| 32382903 | 1x55 ml XS buffer solution pH 10,01 ± 0,02 / 25°C colourless, without certificate | 51 | |
| 32383123 | 1x55 ml XS buffer solution pH 4,01 ± 0,02 / 25°C red color, without certificate | 51 | |
| 32383133 | 1x55 ml XS buffer solution pH 7,00 ± 0,02 / 25°C green color, without certificate | 51 | |
| 32383143 | 1x55 ml XS buffer solution pH 9,00 ± 0,02 / 25°C blue color, without certificate | 51 | |
| 32383163 | 1x55 ml XS buffer solution ORP-Redox mV465 ± 10mV /25°C yellow/brown color, without certificate | 51 | |
| 32383153 | Standard Redox 475mV 1 x 55 ml | 51 | |
| 32383163 | Standard Redox 465mV 1 x 55 ml | 51 | |
| 33412913 | S7 Head - ONLY S7 head for 5mm cable | 48 | |
| 33412923 | BNC - Only BNC plug for 5mm cable | 48 | |
| 33550533 | Coaxial cable with antistatic sheat for electrodes, diameter 5mm Price at meter | 48 | |
| 33550563 | Cable assembled with S7 head - BNC CONNECTOR - Lenght 5m | 48 | |
| 33550663 | Cable assembled with S7 head - OPEN WIRES - Lenght 5m | 48 | |
| 33550673 | Cable assembled with S7 head - BNC CONNECTOR - Lenght 1m | 48 | |
| 33550733 | Cable assembled with S7 head - OPEN WIRES - Lenght 3m | 48 | |
| 33550743 | Cable assembled with S7 head - BNC CONNECTOR - Lenght 3m | 48 | |
| 33550753 | Cable assembled with S7 head - BNC CONNECTOR - Lenght 10m | 48 | |
| 33550803 | Cable assembled with S7 head - OPEN WIRES - Lenght 10m | 48 | |
| 33550903 | DIN - Only DIN plug for 5mm cable | 48 | |
| 33551733 | S7 / BNC cable lenght 1mt for pH electrode | 48 | |
| 33551743 | 1 m cable S7 / DIN | 48 | |
| 40000022 | R-5S+ centrifuge | 80 | |
| 40000272 | Fixed angle rotor R-83A, 12 x 15 ml, supplied with metal buckets and tubes. SPARE PART only for R-5S+ | 80 | |
| 40003402 | T 15F Falcon tube 15ml | 76 | |
| 40003412 | T 15G Glass tube 15ml | 76 | |
| 40003422 | T 15P Plastic tube 15ml | 76 | |
| 40003432 | T 50F Falcon tube 50ml | 76 | |

| p/n | DESCRIPTION | | NOTE |
|----------|--|----|------|
| 40003442 | T 50G Glass tube 50ml | 76 | |
| 40003452 | T 50P Plastic tube 50ml | 76 | |
| 40003462 | T 100G Glass tube 100ml | 76 | |
| 40003472 | T 100P Plastic tube 100 ml | 76 | |
| 40003492 | T 175 Plastic flat bottom bottle 175 ml | 76 | |
| 40005012 | MULTISPIN 12, Mini Microcentrifuge | 81 | |
| 40100302 | NEYA 8 Ventilated centrifuge BASIC, 4x175 ml, 6000rpm | 73 | |
| 40100312 | NEYA 10 Ventilated centrifuge PROFESSIONAL, 4x175 ml, 6000rpm, 10 Programs | 74 | |
| 40100322 | NEYA 16 Ventilated centrifuge HIGH SPEED, 4x175 ml, 16000rpm, 10 Programs | 75 | |
| 40100332 | NEYA 10R Refrigerated centrifuge PROFESSIONAL, 4x175 ml, 6000rpm, 10 Programs | 74 | |
| 40100342 | NEYA 16R Refrigerated centrifuge HIGH SPEED, 4x175 ml, 16000rpm, 10 Programs | 75 | |
| 40100502 | Swing out rotor KIT SB 4-175, composed by S.O. rotor S 4-175, 4 buckets B 175 (175ml) and 4 Biosafe lids L 175 | 76 | |
| 40100522 | Swing out rotor S 6-96 MP for MICROPLATE, supplied complete of 2 plates, max. 6x96 wells | 77 | |
| 40100602 | Insert I 12-2 (12 microtubes 1,5-2ml) for buckets B 175. Set of 4 pcs. | 76 | |
| 40100612 | Insert I 7-5/7 (7 collection tubes 5-7ml) for buckets B 175. Set of 4 pcs. | 76 | |
| 40100622 | Insert I 7-10 (7 collection tubes 10ml) for buckets B 175. Set of 4 pcs. | 76 | |
| 40100632 | Insert I 4-15F (4 Falcon/conical tubes 15ml) for buckets B 175. Set of 4 pcs. | 76 | |
| 40100642 | Insert I 4-15R (4 round bottom tubes 15 ml) for buckets B 175. Set of 4 pcs. | 76 | |
| 40100662 | Insert I 1-50R (1 round bottom tube 50 ml) for buckets B 175. Set of 4 pcs. | 76 | |
| 40100672 | Insert I 1-100 (1 round bottom tube 100 ml) for buckets B 175. Set of 4 pcs. | 76 | |
| 40100682 | Insert I 1-50SF (1 Falcon/conical self standing tube 50ml) for buckets B 175. Set of 4 pcs. | 76 | |
| 40100802 | Fixed angle rotor A 32-15 for 32 tubes 15ml | 78 | |
| 40100812 | Fixed angle rotor A 8-50 for 8 tubes 50ml | 78 | |
| 40100822 | Fixed angle rotor A 6-100 for 6 tubes 100ml | 78 | |
| 40100832 | Fixed angle rotor A 12-5 for 12 tubes 5ml Eppendorf, supplied with Biosafe lid ONLY for NEYA 16-16R | 79 | |
| 40100842 | Fixed angle rotor A 24-2 for 24 microtubes 1,5-2ml Eppendorf, supplied with Biosafe lid ONLY for NEYA 16-16R | 79 | |
| 40100852 | Fixed angle rotor A 36-05 for 36 microtubes da 0,5 Eppendorf, supplied with Biosafe lid ONLY for NEYA 16-16R | 79 | |
| 40100862 | Fixed angle rotor A 6-50 HIGH SPEED 6 tubes 50ml, supplied with Biosafe lid ONLY for NEYA 16-16R | 79 | |
| 40100872 | Fixed angle rotor PCR 4-8 for 4 strips of 8 PCR , supplied with Biosafe lid ONLY for NEYA 16-16R | 79 | |
| 40101002 | B 15F metal buckets complete of Falcon tube 15 ml. Only for F.A. rotor A 32-15 | 78 | |
| 40101012 | B 15G metal buckets complete of Glass tube 15 ml. Only for F.A. rotor A 32-15 | 78 | |
| 40101022 | B 15P metal buckets complete of Plastic tube 15 ml. Only for F.A. rotor A 32-15 | 78 | |
| 40101032 | B 50XF metal buckets complete of Falcon tube 50 ml. Only for F.A. rotor A 8-50 and A 6-50 | 78 | |
| 40101042 | B 50XG metal buckets complete of Glass tube 50 ml. Only for F.A. rotor A 8-50 and A 6-50 | 78 | |
| 40101052 | B 50XP metal buckets complete of Plastic tube 50 ml. Only for F.A. rotor A 8-50 and A 6-50 | 78 | |
| 40101092 | B 100G metal buckets complete of Glass tube 100 ml. Only for F.A. rotor A 6-100 | 78 | |
| 40101102 | B 100P metal buckets complete of Plastic tube 100 ml. Only for F.A. rotor A 6-100 | 78 | |
| 40101262 | RE 2-05 reductor for microtube from 2ml to 0,5ml. Set of 24 pcs. | 79 | |
| 40101272 | RE 2-02 reductor for microtube from 2ml to 0,2ml. Set of 24 pcs. | 79 | |
| 40101282 | RE 05-02 reductor for microtube from 0,5ml to 0,2ml. Set of 36 pcs. | 79 | |
| 40101292 | RE 15-5/7 reductor for tube from 15ml to 5/7ml (13x75mm and 13x100mm). Metal bucket included | 79 | |
| 40101322 | RE 50-15 F reductor from 50ml to 15ml Falcon/conical tube. Metal bucket included | 79 | |
| 40101332 | RE 50-15 R reductor from 50ml to 15ml round bottom tube. Metal bucket included | 79 | |
| 40101342 | RE 50-10 reductor from 50ml to 10ml collection tube. Metal bucket included | 79 | |
| 40101352 | RE 100-50F reductor from 100ml to 50ml Falcon/conical tube. Metal bucket included | 79 | |
| 40101362 | RE 100-50R reductor from 100ml to 50ml round bottom tube. Metal bucket included | 79 | |
| 40101372 | RE 100-15F reductor from 100ml to 15ml Falcon/conical tube. Metal bucket included | 79 | |

| p/n | DESCRIPTION | | NOTE |
|----------|---|-----|------|
| 40101382 | RE 100-15R reductor from 100ml to 15ml round bottom tube. Metal bucket included | 79 | |
| 40101502 | Swing out rotor S 4-175. ONLY ROTOR | 77 | |
| 40101512 | Bucket B 175 (175 ml) for rotor S 4-175. One piece. | 76 | |
| 40101522 | Biosafe lid L 175. One piece | 76 | |
| 40101532 | B 2-50F carrier for 2 Falcon/conical tubes 50 ml. For rotor S 4-175 (min. 4 pieces). One piece | 77 | |
| 40101542 | B 7-15F carrier for 7 Falcon/conical tubes 15 ml. For rotor S 4-175 (min. 4 pieces). One piece | 77 | |
| 40101552 | B 12-10 carrier for 12 collection tubes 10 ml . For rotor S 4-175 (min. 4 pieces). One piece | 77 | |
| 40101562 | B 14-5/7 carrier for 14 collection tubes 5/7ml . For rotor S 4-175 (min. 4 pieces). One piece | 77 | |
| 40101572 | B 16-5/7 carrier for 16 collection tubes 5/7ml . For rotor S 4-175 (min. 4 pieces). One piece | 77 | |
| 40101582 | B 2-50R carrier for 2 round bottom tubes 50 ml. For rotor S 4-175 (min. 4 pieces). One piece | 77 | |
| 40101592 | B 7-15R carrier for 7 round bottom tubes 15 ml. For rotor S 4-175 (min. 4 pieces). One piece | 77 | |
| 41100002 | TCN 50 PLUS - natural convection oven | 96 | |
| 41100012 | TCN 115 PLUS - natural convection oven | 96 | |
| 41100022 | TCN 200 PLUS - natural convection oven | 96 | |
| 41100062 | TCN 30 PLUS - natural convection oven | 96 | |
| 41100102 | Steel wire shelf for TCN 50 / TCF 50 | 97 | |
| 41100112 | Steel wire shelf for ICF 120 | 103 | |
| 41100122 | Steel wire shelf for ICF 200 | 103 | |
| 41100132 | Steel wire shelf for ICF 400 | 103 | |
| 41100142 | Steel wire shelf for TCN 30 | 97 | |
| 41100152 | Steel holed platform applicable to wire shelf for TCN 50 / TCF 50 | 97 | |
| 41100162 | Steel holed platform applicable to wire shelf for ICF 120 | 103 | |
| 41100172 | Steel holed platform applicable to wire shelf for ICF 200 | 103 | |
| 41100182 | Steel holed platform applicable to wire shelf for ICF 400 | 103 | |
| 41100192 | Steel holed platform applicable to wire shelf for TCN 30 | 97 | |
| 41100202 | TCF 50 PLUS - forced air oven with 7 programs x 10 steps, +10°C RT...300°C, 50 Lt volume, digital controller. | 98 | |
| 41100212 | TCF 120 PLUS - forced air oven with 7 programs x 10 steps, +10°C RT...300°C, 120 Lt volume, digital controller | 98 | |
| 41100222 | TCF 200 PLUS - forced air oven with 7 programs x 10 steps, +10°C RT...300°C, 200 Lt volume, digital controller | 98 | |
| 41100232 | TCF 400 PLUS - forced air oven with 7 programs x 10 steps, +10°C RT...300°C, 400 Lt volume, double door opening | 98 | |
| 41100502 | TCN 50 SUPER touch screen colour display. 8 programs of 8 steps each one. Unlimited data memory with USB port | 96 | |
| 41100512 | TCN 115 SUPER touch screen colour display. 8 programs of 8 steps each one. Unlimited data memory with USB port | 96 | |
| 41100522 | TCN 200 SUPER touch screen colour display. 8 programs of 8 steps each one. Unlimited data memory with USB port | 96 | |
| 41100602 | TCF 50 SUPER touch screen colour display. 8 programs of 8 steps each one. Unlimited data memory with USB port | 98 | |
| 41100612 | TCF 120 SUPER touch screen colour display. 8 programs of 8 steps each one. Unlimited data memory with USB port | 98 | |
| 41100622 | TCF 200 SUPER touch screen colour display. 8 programs of 8 steps each one. Unlimited data memory with USB port | 98 | |
| 41100632 | TCF 400 SUPER touch screen colour display. 8 programs of 8 steps each one. Unlimited data memory with USB port | 98 | |
| 41100812 | ICF 120 PLUS - forced air incubator with 7 programs x 10 steps, +5°C RT...70°C | 102 | |
| 41100822 | ICF 200 PLUS - forced air incubator with 7 programs x 10 steps, +5°C RT...70°C, | 102 | |
| 41100832 | ICF 400 PLUS - forced air incubator with 7 programs x 10 steps, +5°C RT...70°C | 102 | |
| 41100912 | ICF 120 SUPER touch screen colour display. 8 programs of 8 steps each one. Unlimited data memory with USB port | 102 | |
| 41100922 | ICF 200 SUPER touch screen colour display. 8 programs of 8 steps each one. Unlimited data memory with USB port | 102 | |
| 41100932 | ICF 400 SUPER touch screen colour display. 8 programs of 8 steps each one. Unlimited data memory with USB port | 102 | |
| 41101002 | ICN 16 PLUS - natural convection incubator with 7 programs x 10 steps, +5°C RT...70°C, 16 Lt volume, digital controller | 100 | |
| 41101012 | ICN 35 PLUS - natural convection incubator with 7 programs x 10 steps, +5°C RT...70°C, 35 Lt volume, digital controller | 100 | |
| 41101022 | ICN 55 PLUS - natural convection incubator with 7 programs x 10 steps, +5°C RT...70°C, 55 Lt volume, digital controller | 100 | |
| 41101032 | ICN 120 PLUS - natural convection incubator with 7 programs x 10 steps, +5°C RT...70°C, 120 Lt volume | 100 | |
| 41101042 | ICN 200 PLUS - natural convection incubator with 7 programs x 10 steps, +5°C RT...70°C, 200 Lt volume | 100 | |

| p/n | DESCRIPTION | | NOTE |
|----------|---|-----|------|
| 41101112 | Steel wire shelf for ICN 16 | 101 | |
| 41101122 | Steel wire shelf for ICN 35 | 101 | |
| 41101132 | Steel wire shelf for ICN 55 | 101 | |
| 41101142 | Steel wire shelf for ICN 120 | 101 | |
| 41101152 | Steel wire shelf for ICN 200 | 101 | |
| 41101172 | Wheels for ICN 200, TCN 200, TCF 200, TCF 400 - Set of 4 pcs. | 101 | |
| 41101302 | ICN 16 SUPER touch screen colour display. 8 programs of 8 steps each one. Unlimited data memory with USB port | 100 | |
| 41101312 | ICN 35 SUPER touch screen colour display. 8 programs of 8 steps each one. Unlimited data memory with USB port | 100 | |
| 41101322 | ICN 55 SUPER touch screen colour display. 8 programs of 8 steps each one. Unlimited data memory with USB port | 100 | |
| 41101332 | ICN 120 SUPER touch screen colour display. 8 programs of 8 steps each one. Unlimited data memory with USB port | 100 | |
| 41101342 | ICN 200 SUPER touch screen colour display. 8 programs of 8 steps each one. Unlimited data memory with USB port | 100 | |
| 41101412 | CH 150 air forced cooled and climatic chamber, 150 Lt vol. | 105 | |
| 41101422 | CH 250 air forced cooled and climatic chamber, 250 Lt vol. | 105 | |
| 41101462 | Steel wire shelf for climatic chamber CH 150 | 105 | |
| 41101472 | Steel wire shelf for climatic chamber CH 250 | 105 | |
| 41101512 | IC 150-R PLUS air forced cooled incubator, with 7 programs x 10 steps 0 °C...60 °C, 150 Lt volume, digital controller | 104 | |
| 41101562 | Steel wire shelf for cooling Incubator IC 150-R | 104 | |
| 41101592 | WB 5 waterbath, +5 °C RT...100°C, 5 Lt volume, digital controller, safety class 2.0, closing lid | 107 | |
| 41101602 | WB 12 waterbath, +5 °C RT...100°C, 12 Lt volume, digital controller, safety class 2.0, closing lid | 107 | |
| 41101612 | WB 22 Pump waterbath with recirculation pump, +5 °C RT...85°C, 22 Lt volume, digital controller, safety class 2.0 | 107 | |
| 41101622 | WB 40 Pump waterbath with recirculation pump, +5 °C RT...85°C, 40 Lt volume, digital controller, safety class 2.0 | 107 | |
| 41101712 | WB 22 waterbath, +5 °C RT...100°C, 22 Lt volume, digital controller, safety class 2.0, closing lid | 107 | |
| 41101732 | SB 35 waterbath with mechanical shaking electronic speed control(Dubnoff), +5 °C RT...85°C, 35 Lt volume | 108 | |
| 41101802 | Rack 1 for tubes Ø13mm / 20 positions | 107 | |
| 41101812 | Rack 2 for tubes Ø18mm / 20 positions | 107 | |
| 41101822 | Rack 3 for tubes Ø31mm / 5 positions | 107 | |
| 41101842 | Rack 4 for tubes Ø56mm / 8 positions (biberon) | 107 | |
| 41101852 | Rack 5 for blood bags / 5 positions | 107 | |
| 41102012 | SKI-4 air forced shaking incubator, +5 °C RT...60 °C, 7 flasks of 500 ml / 4 flasks of 1000 ml capacity, digital controller | 91 | |
| 41102032 | SKI-8 R air forced shaking cooling incubator, | 93 | |
| 41102042 | Platform 4 bars | 91 | |
| 41102052 | Platform dish with non-slip bar | 91 | |
| 41102072 | Universal platform with nr. 4 adjustable bars for SKI 8 R | 93 | |
| 41102082 | Support with anti-slip film (fixing bands included) for SKI 8 R | 93 | |
| 41102112 | Holed platform for flask clips | 91 | |
| 41102122 | Perforated support for fixing clips for SKI 8 R | 91 | |
| 41102132 | Fixing clip for flask volume 100 ml for SKI 4 | 91 | |
| 41102142 | Fixing clip for flask volume 200/250 ml for SKI 4 | 91 | |
| 41102152 | Fixing clip for flask volume 500 ml for SKI 4 | 91 | |
| 41102162 | Fixing clip for flask volume 1000 ml for SKI 4 | 91 | |
| 41102172 | Fixing clip for flask volume 2000 ml for SKI 4 | 91 | |
| 41102202 | CB 5-10 Refrigerated/Heating Circulating bath (working range-10÷100 °C) supplied as standard with PT100 probe | 105 | |
| 41102212 | CB 5-20 Refrigerated/Heating Circulating bath (working range-20÷100 °C) supplied as standard with PT100 probe | 105 | |
| 41102222 | CB 5-30 Refrigerated/Heating Circulating bath (working range-30÷100 °C) supplied as standard with PT100 probe | 105 | |
| 41102302 | Set of 2 tubes of 2 meters with insulating material(working range -40 ÷ +60 °C), complete with metal clamps | 105 | |
| 41102312 | Set of four swivelling wheels, two of which brakeble | 105 | |
| 41102322 | Premixed thermal fluid ready to use, working range -30 ÷ + 80 °C. Tank box 5 litres with plastic tap | 105 | |

| p/n | DESCRIPTION | | NOTE |
|----------|--|-----|------|
| 41110142 | Hole 50 mm complete of closing caps for incubators ICF | 103 | |
| 41110152 | Hole 25 mm complete of closing caps for incubators ICF | 103 | |
| 41119002 | IQ-OQ paper manual for all oven and incubators | 103 | |
| 41300203 | SS-200 sieve adjustable holder for 5pcs sieve 80mm H or 6 pcs sieve 60mm H ONLY FOR MODEL AU-450 | 110 | |
| 41300253 | Concentrate Universal Cleaner 30 ml | 110 | |
| 41300263 | Concentrate Universal Cleaner 500 ml | 110 | |
| 41300303 | CE-5700A Digital ultrasonic cleaner, max capacity 0,75 L, NO heating, timer 90/180/280/380/480 sec. | 109 | |
| 41300323 | DU-06 Digital ultrasonic cleaner, max capacity 0,6 L, NO heating, timer 180/360 sec. | 109 | |
| 41300333 | DU-32 Digital ultrasonic cleaner, max capacity 3,2 L, Temperature range to 80°C, Timer 1-99min | 109 | |
| 41300343 | DU-45 Digital ultrasonic cleaner, max capacity 4,5 L, Temperature range to 80°C, Timer 1-99min | 109 | |
| 41300353 | DU-65 Digital ultrasonic cleaner, max capacity 6,5 L, Temperature range to 80°C, Timer 1-99min | 109 | |
| 41300363 | DU-100 Digital ultrasonic cleaner, max capacity 10 L, Temperature range to 80°C, Timer 1-99min | 109 | |
| 41300403 | AU-32 Analogic ultrasonic cleaner, max capacity 3,2 L, Temperature range to 80°C, Timer 1-50 min. | 110 | |
| 41300413 | AU-65 Analogic ultrasonic cleaner, max capacity 6,5 L, Temperature range to 80°C, Timer 1-50 min. | 110 | |
| 41300423 | AU-450 Analogic ultrasonic cleaner, max capacity 45 L, Temperature range to 80°C, Timer 1-50 min. | 110 | |
| 41300433 | AU-220 Analogic ultrasonic cleaner, max capacity 22 L, Tank size 500x300x150(H)mm. Temperature range to 80°C | 110 | |
| 41300513 | Becker support 2 hole - for DU-45 | 110 | |
| 41300523 | Becker support 2 hole - for DU-65 - AU-65 - AU-220 | 110 | |
| 41300533 | Becker support 4 hole - for DU-100 and AU-220 | 110 | |
| 41400103 | Ozone Generator OZ-10 with timer (10gr/h) | 92 | |
| 41400203 | Ozone Generator OZ-30 with timer (30gr/h) | 92 | |
| 41401003 | Quick kit protein checking on surfaces (50 tests) | 92 | |
| 41401013 | Quick kit protein checking on surfaces (100 tests) | 92 | |
| 41500012 | FR 110 refrigerator | 112 | |
| 41500022 | FR 110 G refrigerator | 112 | |
| 41500032 | FR 260 refrigerator | 112 | |
| 41500042 | FR 260 G refrigerator | 112 | |
| 41500212 | FZ 110 freezer | 113 | |
| 41500232 | FZ 260 freezer | 113 | |
| 41500702 | Standard shelf | 113 | |
| 41500712 | Bottom shelf compatible with all models | 113 | |
| 43000003 | Replaced Cover with LED | 134 | |
| 43000013 | 101, for sugar 0-32% Brix- Standard cover (NO LED) | 134 | |
| 43000023 | 102, for sugar 28-62% Brix - Standard cover (NO LED) | 134 | |
| 43000033 | 103, for sugar 0-80% Brix-Standard cover (NO LED) | 134 | |
| 43000043 | 104, for Honey, 58-92% Sugar- 12-27% Water- 38-43°Beaumè- Standard cover (NO LED) | 134 | |
| 43000053 | 105, Urine, 0-12g/dl Sierum, 1,000-1,050 sg Urine, 1,3330-1,3600 nD Refractive Index - Standard cover (NO LED) | 134 | |
| 43000063 | 106, for Salinity 0-28% NaCl - Standard cover (NO LED) | 134 | |
| 43000103 | 101 ATC (Automatic Temperature compensation), for sugar 0-32% Brix-Standard cover (NO LED) | 134 | |
| 43000113 | 106 ATC, for Salinity 0-100‰ NaCl (Sea water) - Standard cover (NO LED) | 134 | |
| 43000123 | 107 ATC, for Wine 0-32% Brix, 0-28 KM/W Babo - Standard cover (NO LED) | 134 | |
| 43000133 | 110 ABBE, 1,3000/1,7000 nD - 0,0/95,0 %Brix included digital thermometer | 134 | |
| 43000153 | Replaced digital thermometer for 110 Abbe | 134 | |
| 43000163 | Replaced Standard cover (NO LED) | 134 | |
| 43000173 | 414 ATC, for Antifreeze and Battery -50°C-0°C EG Ethilen Glicol, -50°C-0°C PG Propilen Glicol, -40°C-0°C CW | 134 | |
| 43000193 | UREA Refractometer 0-40% | 134 | |
| 43000203 | 101 ATC LED (Automatic Temperature compensation), for sugar 0-32% Brix- Cover with LED | 134 | |

| p/n | DESCRIPTION | | NOTE |
|----------|---|-----|------|
| 43000223 | 103 LED, for sugar 0-80% Brix-Cover with LED | 134 | |
| 43000233 | 107 ATC LED, for Wine 0-32% Brix, 0-28 KM/W Babo - Cover with LED | 134 | |
| 44000053 | DBR SAL Multiscale digital, 0,0-28,0 % Salinity - Temperature 0,0-70,0°C | 134 | |
| 44000063 | DBR 95 Multiscale digital, 0,0-95,0 % Brix, 1,3333-1,5318 nD, 0,0-40,0°C | 132 | |
| 44000073 | DBR 55, Multiscale digital, 0,0-55,0 % Brix, 1,3333-1,4098 nD, 0,0-40,0°C | 132 | |
| 44000083 | DBR Coffee Multiscale digital, 0,0-26,0 % Brix, TDS 0,00-23%, 0,0-70,0°C | 132 | |
| 44000093 | DBR Wine Multiscale digital, 0,0-55,0 % Brix | 131 | |
| 50000112 | Electrode holder with flexible arm mod. 3900 | 11 | |
| 50000132 | Magnetical stirrer ST 10 with rechargeable battery | 11 | |
| 50001052 | Power supply for 50 and 60 series | 11 | |
| 50001132 | Integrated magnetical stirrer for 8 serie | 5 | |
| 50001192 | pH 8+ DHS kit BASIC with pH electrode XS STANDARD T BNC DHS. Cable S7/BNC, temperature probe NT55 | 5 | |
| 50001202 | pH 8+ DHS kit BASIC with pH electrode XS POLYMER. Cable S7/BNC, temperature probe NT55 | 5 | |
| 50001212 | pH 8+ DHS kit BASIC without pH electrode. Cable S7/BNC, temperature probe NT55 | 5 | |
| 50001232 | pH 8+ DHS kit STIRRER with pH electrode XS POLYMER. Cable S7/BNC, temperature probe NT55 | 5 | |
| 50001242 | pH 8+ DHS kit STIRRER without pH electrode. Cable S7/BNC, temperature probe NT55 | 5 | |
| 50001252 | pH 8+ DHS kit STIRRER with pH electrode XS STANDARD T BNC DHS. Cable S7/BNC, temperature probe NT55 | 5 | |
| 50001392 | pH 80+ DHS kit STIRRER with pH electrode XS STANDARD T BNC DHS, cable S7/BNC, temperature probe NT55 | 4 | |
| 50001402 | pH 80+ DHS kit STIRRER with pH electrode XS STANDARD, temperature probe NT55, S7/BNC 1 m cable | 4 | |
| 50001412 | pH 80+ DHS kit STIRRER without pH electrode. Cable S7/BNC, temperature probe NT55 | 4 | |
| 50001422 | pH 80+ DHS kit BASIC with pH electrode XS STANDARD, temperature probe NT55, S7/BNC 1 m cable | 4 | |
| 50001432 | pH 80+ DHS kit BASIC without pH electrode. Cable S7/BNC, temperature probe NT55 | 4 | |
| 50001442 | pH 80+ DHS kit BASIC with pH electrode XS STANDARD T BNC DHS, cable S7/BNC, temperature probe NT55 | 4 | |
| 50001462 | External Keyboard only for 80 serie | 4 | |
| 50001472 | IQ-OQ paper manual | 4 | |
| 50001502 | External printer for pH60-COND60-PC60 and 8-80 series - Normal Paper | 6 | |
| 50001512 | Power supply 12V/220 Vac for 8 and 80 series | 5 | |
| 50002002 | pH electrode mod. 201 T with temp. 1 mt BNC cable | 10 | |
| 50002012 | NT 55 Temperature probe with 1mt cable and Cinch plug | 11 | |
| 50002022 | pH electrode mod. 201 T/5 temperature sensor inside for pH 7 and pH 70, cable lenght 5 mt BNC/Cinch plug | 10 | |
| 50002052 | pH electrode mod. 201T DIN, range pH 0...14, temp. 0...+60 °C, Cable fix / DIN, with temperature sensor NTC 30 | 45 | |
| 50002072 | pH electrode mod. 201 T temperature sensor integrated, cable lenght 3 mt BNC/Cinch plug | 35 | |
| 50002082 | NT 55 Temperature probe with 3mt cable and Cinch plug type NTC 30K | 35 | |
| 50003202 | COND 8+ kit BASIC with conductivity cell 2301T. Standard solution 1413 µS and 12,88 mS, cell holder | 15 | |
| 50003212 | COND 8+ kit BASIC without conductivity cell. Standard solution 1413 µS and 12,88 mS, cell holder | 15 | |
| 50003232 | COND 8+ kit STIRRER with conductivity cell 2301T. Standard solution 1413 µS and 12,88 mS | 15 | |
| 50003242 | COND 8+ kit STIRRER without conductivity cell. Standard solution 1413 µS and 12,88 mS | 15 | |
| 50003352 | VPT 1 Cond. Cell C=1 with ATC, glass body, cable lenght 1 mt BNC/Cinch | 61 | |
| 50003372 | VPT 10H Cell Glass-Pt C=10+ATC range 100 to 500mS | 61 | |
| 50003402 | COND 80+ kit STIRRER with conductivity cell Glass-Pt VPT80/1, standard solution 1413 µS and 12,88 mS | 14 | |
| 50003412 | COND 80+ kit STIRRER without conductivity cell. Standard solution 1413 µS and 12,88 mS | 14 | |
| 50003422 | COND 80+ kit BASIC with conductivity cell Glass-Pt VPT80/1, standard solution 1413 µS and 12,88 mS | 14 | |
| 50003432 | COND 80+ kit BASIC without conductivity cell. Standard solution 1413 µS and 12,88 mS | 14 | |
| 50004002 | Conductivity cell mod. 2301T with ATC, C=1, measuring range 10uS...200mS, cable lenght 1 mt BNC/Cinch | 47 | |
| 50004012 | Conductivity cell mod. VPT 01 with ATC, C=0,1, measuring range 0,1uS...1mS | 47 | |
| 50004022 | Conductivity cell mod. 2301T/5 with ATC, C=1, measuring range 10µS...100mS, cable lenght 5 mt BNC/Cinch | 20 | |
| 50004062 | Conductivity cell mod. VP 1, measuring range 10 µS...10 mS, temp. 0...+80 °C, Cable fix / BNC, cell constant C=1. | 47 | |

| p/n | DESCRIPTION | | NOTE |
|----------|---|-----|------|
| 50004072 | Conductivity cell mod. VPT 10, measuring range 100 µS...200 mS, temp. 0...+80 °C, Cable fix / BNC | 47 | |
| 50004082 | Conductivity cell mod. VPT SOIL for soil conductivity measurement with ATC, C=1, measuring range 10 µS...50mS | 47 | |
| 50004092 | Conductivity cell C=1 with built-in temperature sensor, epoxy body, cable 3m. Working range: 10 uS...200 mS | 35 | |
| 50004132 | PC 8+ DHS kit STIRRER with pH electrode XS STANDARD T BNC DHS, conductivity cell 2301T with ATC. | 25 | |
| 50004142 | PC 8+ DHS kit STIRRER with pH electrode XS Polymer, conductivity cell 2301T with ATC. Cable S7/BNC | 25 | |
| 50004152 | PC 8+ DHS kit STIRRER without pH electrode, with cond. cell 2301T. Cable S7/BNC, temperature probe NT55 | 25 | |
| 50004162 | PC 8+DHS kit STIRRER with pH electrode XS Polymer, without cond. cell. Cable S7/BNC. Temp. probe NT55 | 25 | |
| 50004172 | PC 8+ DHS kit STIRRER without pH electrode and cond. cell. Cable S7/BNC, temperature probe NT55 | 25 | |
| 50004232 | PC 80+ DHS kit STIRRER with pH electrode XS STANDARD T BNC DHS, cable S7/BNC, temperature probe NT55 | 24 | |
| 50004242 | PC 80+ DHS kit STIRRER with pH electrode XS STANDARD S7, 1 mt cable S7/BNC, temperature probe NT55 | 24 | |
| 50004252 | PC 80+ DHS kit STIRRER without pH electrode, with cond. cell glass VPT 80/1. Cable S7/BNC, temp. probe NT55 | 24 | |
| 50004262 | PC 80+ DHS kit STIRRER with pH electrode XS STANDARD S7, without cond. cell. Cable 1 mt cable S7/BNC | 24 | |
| 50004272 | PC 80+ DHS kit STIRRER without pH electrode and cond. cell. Cable S7/BNC, temperature probe NT55 | 24 | |
| 50010172 | Power supply USB for 70 series | 36 | |
| 50010242 | Polarographic sensor OXY D07/3MT with 3 meter cable, 2 membrane and filling solution (30ml) | 33 | |
| 50010252 | Kit 2 membrane for sensor OXY D07/3MT | 33 | |
| 50010262 | Filling solution for electrode OXY D07/3MT 1x 120ml | 33 | |
| 50010272 | Standard zero (0) Oxygen, single use. Kit of 5 bottle for D07/3MT, LD070/2MT, LD070/10MT | 33 | |
| 50010282 | Plastic armature (PPE) for electrode immersion D07/3MT (to be ordered with OXY 7) | 33 | |
| 50010292 | Standard zero (0) Oxygen single use 1 bottle for D07/3MT, LD070/2MT, LD070/10MT | 33 | |
| 50010342 | Optical sensor LD070/2MT with 2 meter cable | 32 | |
| 50010352 | Optical sensor LD070/10MT with 10 meter cable | 32 | |
| 50010362 | Replaced membrane LDO for sensor LD070/2MT and LD070/10MT | 32 | |
| 50010372 | Steel armature for sensor immersion LD070/10MT | 32 | |
| 50010962 | Soft case with shoulder strap in eco-friendly material for portable meters Violine | 36 | |
| 50010972 | IP67 carrying case for REVIO instruments | 36 | |
| 50011122 | NT7P, Penetration measurements, mm 150x4 | 112 | |
| 50011142 | NT7L, For measurements in liquids/air, mm 200x3 | 112 | |
| 50014003 | pH 1 Tester ECOPACK - 0,1 pH resolution, with ATC (automatic temperature compensation), fix electrode | 57 | |
| 50014013 | pH 1 Tester KIT - 0,1 pH resolution, with ATC (automatic temperature compensation), fix electrode, in carton case | 57 | |
| 50014053 | pH 5 Tester ECOPACK - 0,01 pH resolution, with ATC (automatic temperature compensation) | 58 | |
| 50014063 | pH 5 Tester KIT - 0,01 pH resolution, with ATC (automatic temperature compensation) | 58 | |
| 50014073 | pH 5 Tester only BODY instrument - 0,01 pH resolution, with ATC (automatic temperature compensation) | 58 | |
| 50014113 | pH 5 FOOD Tester KIT - 0,01 pH resolution, with ATC (automatic temperature compensation) | 58 | |
| 50014123 | pH 5 FOOD Tester ECOPACK - 0,01 pH resolution, with ATC (automatic temperature compensation) | 58 | |
| 50014143 | pX 4 Tester KIT - 0,01 pH resolution, ORP (-1000 / + 1900 mV), mV for electrode quality test, ORP | 60 | |
| 50014153 | COND 1 Tester ECOPACK, Cond (0,01 µS...200 mS) and TDS (0,01 ppm...199,9 ppt), with ATC | 57 | |
| 50014163 | COND 1 Tester KIT, Cond (0,01 µS...200 mS) and TDS (0,01 ppm...199,9 ppt), with ATC | 57 | |
| 50014173 | pX 4 Tester ECOPACK - 0,01 pH resolution, ORP (-1000 / + 1900 mV), mV for electrode quality test, ORP | 60 | |
| 50014203 | COND 5 Tester ECOPACK - Cond (0,01 µS...200 mS), TDS (0,01 ppm...199,9 ppt), Salinity (0,1 mg/l...100,0 g/l), °C/°F | 59 | |
| 50014213 | COND 5 Tester KIT - Cond (0,01 µS...200 mS), TDS (0,01 ppm...199,9 ppt), Salinity (0,1 mg/l...100,0 g/l), °C/°F | 59 | |
| 50014223 | COND 5 Tester only BODY instrument - Cond (0,01 µS...200 mS), TDS (0,01 ppm...199,9 ppt) | 59 | |
| 50014253 | PC 5 Tester ECOPACK - 0,01 pH resolution, mV for electrode quality test, Cond (0,01 µS...200 mS), TDS | 60 | |
| 50014263 | PC 5 Tester KIT - 0,01 pH resolution, mV for electrode quality test, Cond (0,01 µS...200 mS), TDS | 60 | |
| 50014293 | PC 6 Tester KIT - 0,01 pH resolution, mV for electrode quality test, ORP (-1000 / + 1900 mV) | 61 | |
| 50014313 | ORP 5 Tester KIT - ORP (-1000 / + 1900 mV) with customer calibration point, °C/°F, replaceable sensor | 59 | |
| 50014403 | pH 5 Replacement spare pH electrode for tester pH 5 | 58 | |

| p/n | DESCRIPTION | | NOTE |
|----------|--|----|------|
| 50014413 | COND 5 replacement spare COND sensor for COND 5 | 59 | |
| 50014423 | SPH 5 Replacement spare pH electrode with ATC for tester pH 5 FOOD | 58 | |
| 50014433 | PC 5 replacement spare PC electrode for PC 5 | 60 | |
| 50014443 | ORP 5 replacement spare ORP sensor for ORP 5 | 59 | |
| 50014463 | pX 4 Replacement spare pH/ORP sensor for pX 4 | 60 | |
| 50014483 | PC 6 Replacement spare pH/ORP/COND sensor for PC 6 | 61 | |
| 50014713 | VPT SOIL-COND5 Conductivity cell for soil conductivity measurement with ATC, C=1, measuring range 10 µS...50mS | 62 | |
| 50101002 | pH 50 VioLab DHS complete kit included pH electrode 201T with temperature sensor inside and BNC | 7 | |
| 50101012 | pH 50 VioLab DHS without pH electrode. Cable S7/BNC, temperature probe NT55 | 7 | |
| 50101032 | pH 50 VioLab DHS complete kit included pH electrode 201T DHS with temperature sensor inside and BNC | 7 | |
| 50101092 | pH 60 VioLab DHS complete kit included pH electrode 201T with temperature sensor inside and BNC | 6 | |
| 50101102 | pH 60 VioLab DHS complete kit included pH electrode 201T DHS with temperature sensor inside and BNC | 6 | |
| 50101112 | pH 60 VioLab DHS without pH electrode. Cable S7/BNC, temperature probe NT55 | 6 | |
| 50103002 | COND 50 VioLab complete kit include cond. cell 2301T with ATC, cable length 1m. Cell holder | 17 | |
| 50103012 | COND 50 VioLab without conductivity cell. standard calibration solutions 1413 µS and 12,88 mS, cell holder | 17 | |
| 50103072 | COND 60 VioLab complete kit include cond. cell 2301T with ATC, cable length 1m. Cell holder | 16 | |
| 50103082 | COND 60 VioLab without conductivity Cell. standard calibration solutions 1413 µS and 12,88 Ms | 16 | |
| 50103892 | PC 50 VioLab DHS complete kit with pH electrode 201T DHS with temperature sensor inside, conductivity cell | 27 | |
| 50103902 | PC 50 VioLab DHS complete kit with pH electrode 201T with temperature sensor inside, conductivity cell | 27 | |
| 50103912 | PC 50 VioLab DHS without pH electrode, included S7/BNC cable, temperature probe NT 55, conductivity cell | 27 | |
| 50103942 | PC 60 VioLab DHS complete kit with pH electrode 201T DHS with temperature sensor inside | 26 | |
| 50103952 | PC 60 VioLab DHS complete kit with pH electrode 201T with temperature sensor inside, conductivity cell | 26 | |
| 50103972 | PC 60 VioLab DHS without pH electrode, included S7/BNC cable, temperature probe NT 55, conductivity cell | 26 | |
| 50110012 | pH 7 Vio DHS complete kit included pH electrode 201T plastic body with temperature sensor inside | 9 | |
| 50110022 | pH 7 Vio DHS kit without pH electrode with temperature probe NT 55, BNC/S7 1mt cable, colored pH buffer | 9 | |
| 50110032 | pH 7 Vio DHS FOOD complete kit included pH spear electrode 2 Pore T with temperature sensor inside | 9 | |
| 50110062 | pH 7 Vio DHS complete kit included pH GEL electrode plastic body 1 mt. cable with BNC. | 9 | |
| 50110072 | pH 7 Vio DHS complete kit included pH electrode 201T DHS plastic body with temperature sensor inside | 9 | |
| 50110082 | pH 7 Vio DHS FOOD complete kit included pH spear electrode 2 Pore T DHS with temperature sensor inside | 9 | |
| 50110112 | pH 70 Vio DHS complete kit included pH electrode 201T plastic body with temperature sensor inside | 8 | |
| 50110122 | pH 70 Vio DHS kit without pH electrode with temperature probe NT 55, BNC/S7 1mt cable, colored pH buffer | 8 | |
| 50110162 | pH 70 Vio DHS FOOD complete kit included pH spear electrode 2 Pore T with temperature sensor inside | 8 | |
| 50110182 | pH 70 Vio DHS complete kit included pH electrode 201T DHS plastic body with temperature sensor inside | 8 | |
| 50110192 | pH 70 Vio DHS FOOD complete kit included pH spear electrode 2 Pore T DHS with temperature sensor inside | 8 | |
| 50110202 | Oxy 7 Vio with polarographic sensor OXY D07/MT with 3 mt cable, 1 bottle O Oxygen standar | 35 | |
| 50110212 | Oxy 7 Vio ECO only meter, without probe in carton box ECOpack | 35 | |
| 50110302 | Oxy 70 Vio with optical Oxygen sensor LD070/2MT with 2 mt cable. 1 bottle O Oxygen standard, power supply | 34 | |
| 50110312 | Oxy 70 Vio with optical Oxygen sensor LD070/10MT with 10 mt cable. 1 bottle O Oxygen standard, power supply | 34 | |
| 50110412 | COND 7 Vio with TDS complete kit included cond. cell 2301 T with ATC, cable lenght 1mt with BNC/Cinch plug | 19 | |
| 50110422 | COND 7 Vio with TDS without conductivity cell, standard calibration solution, carrying case and accessories. | 19 | |
| 50110512 | COND 70 Vio complete kit included cond. cell 2301 T with ATC, cable lenght 1mt with BNC/Cinch plug | 18 | |
| 50110522 | COND 70 Vio without conductivity cell, standard calibration solution, power supply, software PC-Link | 18 | |
| 50110712 | PC 7 Vio DHS complete kit included pH electrode 201T plastic body with temperature sensor inside | 31 | |
| 50110722 | PC 7 Vio DHS without pH electrode, included conductivity cell 2301 T with ATC, cable lenght 1mt with BNC/Cinch | 31 | |
| 50110752 | PC 7 Vio DHS complete kit included pH electrode 201T DHS plastic body with temperature sensor inside | 31 | |
| 50110812 | PC 70 Vio DHS complete kit included pH electrode 201T plastic body with temperature sensor inside | 30 | |
| 50110822 | PC 70 Vio DHS without pH electrode, included conductivity cell 2301 T with ATC, cable lenght 1mt with BNC | 30 | |

| p/n | DESCRIPTION | | NOTE |
|----------|---|-----|------|
| 50110872 | PC 70 Vio DHS complete kit included pH electrode 201T DHS plastic body with temperature sensor inside a | 30 | |
| 50110912 | REVIO DHS kit portable multiparameter included with sensors pH/EC/DO | 29 | |
| 50110922 | REVIO DHS kit portable multiparameter included with sensors pH/DO without EC cell | 29 | |
| 50110932 | REVIO DHS kit portable multiparameter without sensors pH/EC/DO | 29 | |
| 50110942 | REVIO DHS kit portable multiparameter included with sensors EC/DO, without pH electrode | 29 | |
| 50110952 | REVIO DHS kit portable multiparameter with 201T DHS, EC and DO sensors | 29 | |
| 50111012 | XS Temp 7 Vio portable thermometer for PT 100 RTD probe. | 116 | |
| 50111032 | XS Temp 7 Vio K/T portable thermometer for thermocouple T and K probe. | 119 | |
| 50111052 | XS Temp 7 Vio NTC portable thermometer for NTC probe. | 118 | |
| 50111062 | XS Temp 7 Vio NTC KIT L portable thermometer for NTC probe. | 118 | |
| 50111082 | XS Temp 70 Vio Portable thermometer data logger for 2 PT 100 RTD probes. | 116 | |
| 50111092 | XS Temp 7 Vio NTC KIT P portable thermometer for NTC probe. | 118 | |
| 51000212 | PT56C, For contact measurements, mm 200x5 | 117 | |
| 51000222 | PT56P, Penetration measurements, mm150x4 | 117 | |
| 51000232 | PT56A, For measurement in air, mm200x4 | 117 | |
| 51000242 | PT56L 1/5 DIN, For measurements in liquids, mm 200x3 | 117 | |
| 51000252 | PT56 TFE, Teflon cable ideal for oven and freezer, mm 100x4 | 117 | |
| 51000262 | PT56/500, For measurements in liquids, mm 500x6 | 117 | |
| 51000272 | PT56/1000, For measurements in liquids, mm 1000x6 | 117 | |
| 51000752 | 3K220, For measurements in liquids/air, mm 200x2 | 120 | |
| 51000762 | 3K320, mm 200x3 | 120 | |
| 51000772 | 3K350, mm 500x3 | 120 | |
| 51000782 | 3K6100, mineral oxide folding probe, mm 1000x6 | 120 | |
| 51000792 | 3K650, mineral oxide folding probe, mm 500x6 | 120 | |
| 51000802 | 3K520C, For contact measurements , mm200x5 | 120 | |
| 51000812 | 3K1200, Wire manipulable probe, mm 2000x2 | 120 | |
| 51000822 | 3K6120, mineral oxide folding probe, mm 1200x6 | 120 | |
| 51000832 | 3K415P, Penetration measurements, mm150x4 | 120 | |
| 51000902 | 3T320, For measurements in liquids/air, mm 200x3 | 121 | |
| 51000912 | 3T415, Penetration measurements, mm150x4 | 121 | |
| 51000922 | 3T520C, For contact measurements , mm200x5 | 121 | |
| 51000932 | 3T420A, For measurement in air, mm200x4 | 121 | |
| 51000942 | 3T215, Penetration measurements, mm150x2 | 121 | |
| 51000952 | 3T210, Ideal for oven and freezer, mm 100x2,5 | 121 | |
| 51004132 | REDOX combined electrode, cable lenght 3 m. | 35 | |
| 51100033 | 1x250 ml XS buffer solution pH 4,01 ± 0,01 / 25°C red color with N.I.S.T certificate | 52 | |
| 51100043 | 1x250 ml XS buffer solution pH 7,00 ± 0,01 / 25°C green color with N.I.S.T certificate | 52 | |
| 51100053 | 1x250 ml XS buffer solution pH 9,00 ± 0,02 / 25°C blue color with N.I.S.T certificate | 52 | |
| 51100063 | 1x250 ml XS buffer solution pH 10,01 ± 0,02 / 25°C colourless with N.I.S.T. certificate | 52 | |
| 51100073 | 1x250 ml XS buffer solution pH 9,21 ± 0,02 / 25°C blue color with N.I.S.T certificate | 52 | |
| 51100133 | 1x500 ml XS buffer solution pH 4,01 ± 0,01 / 25°C red color with N.I.S.T certificate | 52 | |
| 51100143 | 1x500 ml XS buffer solution pH 7,00 ± 0,01 / 25°C green color with N.I.S.T certificate | 52 | |
| 51100153 | 1x500 ml XS buffer solution pH 9,00 ± 0,02 / 25°C blue color with N.I.S.T certificate | 52 | |
| 51100163 | 1x500 ml XS buffer solution pH 10,01 ± 0,02 / 25°C colourless with N.I.S.T. certificate | 52 | |
| 51100173 | 1x500 ml XS buffer solution pH 9,21 ± 0,02 / 25°C blue color with N.I.S.T certificate | 52 | |
| 51100233 | 1x5Lt XS buffer solution pH 4,01 ± 0,01 / 25°C red color with N.I.S.T certificate | 52 | |
| 51100243 | 1x5Lt XS buffer solution pH 7,00 ± 0,01 / 25°C green color with N.I.S.T certificate | 52 | |

| p/n | DESCRIPTION | | NOTE |
|----------|---|-----|------|
| 51100253 | 1x5Lt XS buffer solution pH 9,00 ± 0,02 / 25°C blue color with N.I.S.T certificate | 52 | |
| 51100263 | 1x5Lt XS buffer solution pH 10,01 ± 0,02 / 25°C colourless with N.I.S.T certificate | 52 | |
| 51100273 | 1x5Lt XS buffer solution pH 9,21 ± 0,02 / 25°C blue color with N.I.S.T certificate | 52 | |
| 51100303 | 1x250 ml XS Redox/ORP 200 mV ± 5mV / 25°C (dark bottle) | 53 | |
| 51100313 | 1x250 ml XS Redox/ORP 475 mV ± 5mV / 25°C | 53 | |
| 51100323 | 1x500 ml XS Redox/ORP 475 mV ± 5mV / 25°C | 53 | |
| 51100333 | 1x5Lt XS Redox/ORP 650 mV ± 5mV / 25°C (Politainer Cubibox) | 53 | |
| 51100503 | 1x300 ml XS Conductivity Standard 1,3 µS/cm ± 0,1 / 25°C glass bottle with N.I.S.T certificate | 53 | |
| 51100513 | 1x300 ml XS Conductivity Standard 5 µS/cm ± 0,1 / 25°C glass bottle with N.I.S.T certificate | 53 | |
| 51100613 | 1x500 ml XS Conductivity Standard 84 µS/cm ± 1% / 25°C with N.I.S.T certificate | 53 | |
| 51100623 | 1x500 ml XS Conductivity Standard 147 µS/cm ± 1% / 25°C with N.I.S.T certificate | 53 | |
| 51100633 | 1x500 ml XS Conductivity Standard 1413 µS/cm ± 1% / 25°C with N.I.S.T certificate | 53 | |
| 51100643 | 1x500 ml XS Conductivity Standard 12'880 µS/cm ± 1% / 25°C with N.I.S.T certificate | 53 | |
| 51102013 | 1x20 SACHET 25ml pH 4,01 ± 0,01 / 25°C (red), with Certificate of Analysis | 51 | |
| 51102023 | 1x20 SACHET 25ml pH 7,00 ± 0,01 / 25°C (green), with Certificate of Analysis | 51 | |
| 51102043 | 1x20 SACHET 25ml pH 10,01 ± 0,02 / 25°C (yellow), with Certificate of Analysis | 51 | |
| 51102053 | 1x20 SACHET 25ml EC 1413 µS/cm ± 1% / 25°C, with Certificate of Analysis | 51 | |
| 51102063 | 1x20 SACHET 25ml EC 12880 µS/cm ± 1% / 25°C, with Certificate of Analysis | 51 | |
| 51102083 | 1x20 SACHET 10ml STORAGE Solution for pH/ORP sensor | 51 | |
| 51102093 | 1x20 SACHET 25ml Distilled Water | 51 | |
| 51102203 | Set CAL pH BIS 1x20 SACHET 25ml (10 x pH 4.01/7.00) | 51 | |
| 51102213 | Set CAL pH TRIS 1x20 SACHET 25ml (7 x pH 4.01/7.00 + 6 x pH 10.01) | 51 | |
| 51102223 | Set CAL COND 1x20 SACHET 25ml (10 x EC 1413/12880 µS/cm) | 51 | |
| 51102233 | Set CAL PC 1x20 SACHET 25ml (7 x pH 4.01/7.00 + 6 x EC 1413 µS/cm) | 51 | |
| 51102243 | Set REFILL pack for pH 1x20 SACHET 25ml (6 x pH 4.01/7.01/H2O + 2 x Storage 10ml) | 51 | |
| 51102253 | Set REFILL pack for COND 1x20 SACHET 25ml (7 x EC 1413/12880 µS/cm + 6 x H2O) | 51 | |
| 51102263 | Set REFILL pack for PC 1x20 SACHET 25ml (5 x pH 4.01/7.01/EC 1413 µS/cm + 3 x H2O + 2 x Storage 10ml) | 51 | |
| 51300003 | 1x250 ml XS buffer solution pH 4,01 ± 0,01 / 25°C red color with DAKKS certificate | 50 | |
| 51300013 | 1x250 ml XS buffer solution pH 7,00 ± 0,01 / 25°C green color with DAKKS certificate | 50 | |
| 51300023 | 1x250 ml XS buffer solution pH 9,21 ± 0,02 / 25°C blue color with DAKKS certificate | 50 | |
| 51300033 | 1x250 ml XS buffer solution pH 10,01 ± 0,02 / 25°C yellow with DAKKS certificate | 50 | |
| 51300103 | 1x500 ml XS buffer solution pH 4,01 ± 0,01 / 25°C red color with DAKKS certificate | 50 | |
| 51300113 | 1x500 ml XS buffer solution pH 7,00 ± 0,01 / 25°C green color with DAKKS certificate | 50 | |
| 51300123 | 1x500 ml XS buffer solution pH 9,21 ± 0,02 / 25°C blue color with DAKKS certificate | 50 | |
| 51300133 | 1x500 ml XS buffer solution pH 10,01 ± 0,02 / 25°C yellow with DAKKS certificate | 50 | |
| 51300303 | 1x300 ml XS Conductivity Standard 1,3 µS/cm ± 0,1 / 25°C glass bottle with DFM certificate | 50 | |
| 51300313 | 1x300 ml XS Conductivity Standard 5 µS/cm ± 0,1 / 25°C glass bottle with DFM certificate | 50 | |
| 51300323 | 1x500 ml XS Conductivity Standard 84 µS/cm ± 1% / 25°C with DFM certificate | 50 | |
| 51300333 | 1x500 ml XS Conductivity Standard 147 µS/cm ± 1% / 25°C with DFM certificate | 50 | |
| 51300343 | 1x500 ml XS Conductivity Standard 1413 µS/cm ± 1% / 25°C with DFM certificate | 50 | |
| 51300353 | 1x500 ml XS Conductivity Standard 12'880 µS/cm ± 1% / 25°C with DFM certificate | 50 | |
| 60000423 | 1x55 ml XS buffer solution 1413 µS/cm ± 1% / 25°C colourless, without certificate | 50 | |
| 60000433 | 1x55 ml XS buffer solution 12'880 µS/cm ± 1% / 25°C colourless, without certificate | 50 | |
| 70100003 | mini T Temperature datalogger | 122 | |
| 70100103 | mini T1 Temperature datalogger | 122 | |
| 70100203 | mini TH Temperature and humidity datalogger | 122 | |
| 70100303 | mini TB with rpobe | 122 | |

| p/n | DESCRIPTION | | NOTE |
|----------|--|-----|------|
| 70101003 | mini 1way Single trip temperature datalogger | 122 | |
| 70101013 | mini 1way Single trip temperature datalogger | 122 | |
| 70101043 | mini 1way LCD | 122 | |

NOTE