# MULTIPARAMETERS

PORTABLE INSTRUMENTS WARRANTY 5 YEARS

BENCHTOP INSTRUMENTS WARRANTY 3 YEARS

MADE IN ITALY

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

## HOW TO CHOOSE

| | Violab PC50 | Violab PC 60 | PC 8 PRO | PC 80 PRO |
|---|---|---|---|---|
| pH Resolution | 0,01 pH | 0,01 pH | 0,001 pH | 0,001 pH |
| ION | ○ | ○ | ○ | ● |
| COND e TDS | ● | ● | ● | ● |
| Salinity | ○ | ● | ● | ● |
| Resistivity | ○ | ○ | ○ | ● |
| Ultra pure water compensation | ○ | ○ | ○ | ● |
| Display | colour backlit LCD | colour backlit LCD | colour graphic | colour graphic |
| Analogic view | ○ | ○ | ● | ● |
| GLP Calibration | ○ | ● | ● | ● |
| Calibration password | ○ | ○ | ● | ● |
| Calibrations points | 3 | 3 | 5 | 5 |
| Calibration due alarm | ○ | ● | ● | ● |
| Electrode status indication | ○ | ○ | ● | ● |
| Data logger | ○ | ● | ● | ● |
| PC / Printer connection | ○ | ● | ● | ● |
| Multilanguage | ○ | ○ | ● | ● |
| Account manager + Audit trail | ○ | ○ | ○ | ● |
| External keyboard | ○ | ○ | ○ | ● |

# PC 80 PRO

- **Resolution** 0.1 / 0.01 / 0.001 pH - 0.01 µS
- Automatic and manual **temperature compensation**
- **Advanced user management** *(4 levels, 15 profiles)*
- **Data logger,** *8000 data memory in GLP*
- **Menu Analysis** *for data tracking* **+ Audit Trail**
- *Customisable* **print templates**
- **Multiview**

## MAIN FEATURES

**Digital benchtop multiparameter for advanced laboratory analysis.**
**Multiview** display (up to 6 parameters simultaneously)
Automatic or manual 5-point pH calibration with automatic standard recognition.
ISE calibration from 2 to 5 points.Automatic or manual ORP calibration on 1 point.
Automatic EC calibration up to 1 to 4 points with recognition of standards and calculation of different cell constants + 1 manual point.
Automatic scale, automatic and manual temperature compensation (0...100.0 °C).
Reference temperature (15...30 °C), linear (0.00...10.00%) and **non-linear temperature coefficient for ultrapure water.**
**Compatible with 4-ring and 2-ring cells**, with indication of selected constant.
**Calibration due** warning and/or measurement block.
**Alarm setting** and display functions in analogue format, "**Stop-reading", stability indication, self-diagnosis messages.**
**Advanced management of Users (Admin, Manager, User, Guest)** with different permissions.
Different data logger modes (Manual, Automatic, Min/Max, Delta value).
Analysis menu for complete editing of your measurements: you can enter all useful information about the sample and test.
**Customisable print templates**. Multilanguage Setup Menu (Ita - Eng - Deu - Fra - Esp - Por).
Free **Data-Link+** software at www.xsinstruments.com for PC data management, including **Audit Trail**.
2 USB outputs for external keyboard and PC connection. RS232 port for printer connection.
Independently controlled magnetic stirrer (optional).

**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:** 0,01...100,0 ppt
**TDS:** 0,1 mg/l...500,0 g/l
**Temperature**:-30...130,0 °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 |
|---|---|---|---|
| NEW | **PC 80 PRO** STIRRER | **Complete with pH XS Standard DHS**, **EC cell EPT 4** (C=0,55) with temperature sensor incorporated, magnetic stirrer with adjustable speed. | 50104302 |
| | **PC 80 PRO** STIRRER | **Complete with pH XS Standard DHS**, **EC cell VPT 1** glass/platinum (C=1) with temperature sensor incorporated, magnetic stirrer with adjustable speed. | 50104232 |
| NEW | **PC 80 PRO** STIRRER | **Complete with pH XS Standard**, **EC cell EPT 4** (C=0,55) with temperature sensor incorporated, magnetic stirrer with adjustable speed. | 50104282 |
| | **PC 80 PRO** STIRRER | **Complete with pH XS Standard**, **EC cell VPT 1** glass/platinum (C=1) with temperature sensor incorporated, magnetic stirrer with adjustable speed. | 50104242 |
| NEW | **PC 80 PRO** STIRRER | **Without pH electrode**, **EC cell EPT 4** (C=0,55) with temperature sensor incorporated, magnetic stirrer with adjustable speed. | 50104292 |
| | **PC 80 PRO** STIRRER | **Without pH electrode**, **EC cell VPT 1** glass/platinum (C=1) with temperature sensor incorporated, magnetic stirrer with adjustable speed. | 50104252 |
| | **PC 80 PRO** STIRRER | **With pH electrode XS Standard**, **without conductivity cell ,** magnetic stirrer with adjustable speed. | 50104262 |
| | **PC 80 PRO** STIRRER | **Without pH electrode**, without **conductivity cell**, with magnetic stirrer with adjustable speed. | 50104272 |

# PC 8 PRO

- **Resolution** *0,1 / 0,01 / 0,001 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 benchtop conductivity meter.**
Automatic calibration of up to 4 conductivity standards (84, 1413 µS, 12.88 mS, 111.8 mS) from 1 to 4 points with calculation of different cell constants or 1 point custom. **Recall and printout of calibration data**.
Automatic scale, **automatic and manual temperature compensation** (0...100.0 °C).
Reference temperature (15...30 °C). Linear temperature coefficient (0.00...10.00%)
2-loop cell technology with selection and indication of constant (0.1 - 1.0 - 10)
**Calibration due** warning and/or measurement block.
**Alarm setting and analogic view, "Stop-reading", stability indication, self-diagnosis messages**
**Security password** for saved data and calibration management.
**Data logger** for up to 1000 data points in GLP with possibility of printing and data download to PC.
**Multilanguage Setup Menu** (Ita - Eng - Deu - Fra - Esp - Por).
Free **Data-Link+** software at www.xsinstruments.com for PC data management.
USB output for PC connection. RS232 port for printer connection.
Independently controlled magnetic stirrer (optional).

**Measuring range:**
**pH:** -2,000...16,000 (0,001 pH)
**mV:** -2000...+2000 (1 mV)
**Temperature**:-20...120,0 °C (0,1 °C)
**Cond:** 0,0 µS ...500 mS (automatic)
**Salinity:** 0,01...100,0 ppt
**TDS:** 0,1 mg/l...200,0 g/l

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

| Name | Description | p/n |
|---|---|---|
| **PC 8 PRO** STIRRER | **Complete with pH XS Standard DHS**, **EC cell VPT 1** glass/platinum (C=1) with temperature sensor incorporated, magnetic stirrer with adjustable speed. | 50104132 |
| **PC 8 PRO** STIRRER | **Complete with pH XS Standard**, **EC cell VPT 1** glass/platinum (C=1) with temperature sensor incorporated, magnetic stirrer with adjustable speed. | 50104142 |
| **PC 8 PRO** STIRRER | **Without pH electrode**, **conductivity cell VPT 1** glass/platinum (C=1) with temperature sensor incorporated, magnetic stirrer with adjustable speed. | 50104152 |
| **PC 8 PRO** STIRRER | **With pH electrode XS Polymer**, **without conductivity cell ,** magnetic stirrer with adjustable speed. | 50104162 |
| **PC 8 PRO** STIRRER | **Without pH electrode**, and without **conductivity cell**, with magnetic stirrer with adjustable speed. | 50104172 |

## 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** | 50001492 |

# PC 60 VioLab

- **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*
- **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 µS e 12,88; 111,8 mS) and 1 point custom.
**Automatic resolution**, reference temperature from 15 to 30 °C, and selectable cell costant (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 µS ...200 mS (0,01 µS - 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 |

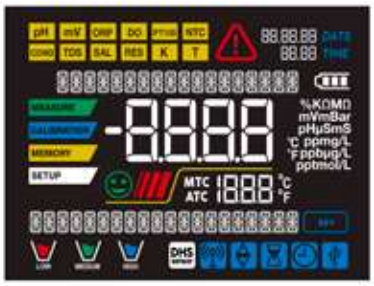
# PC 50 VioLab

- **Resolution** *0,1 / 0,01 pH - 0,01 µS*
- 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 µS e 12,88; 111,8 mS) and 1 point custom.
Automatic resolution, reference temperature from 15 to 30 °C, and selectable cell costant (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 µS ...200 mS (0,01 µS - 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**<br>DHS ELECRODE + 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**<br>ELECTRODE + CELL | **Complete with pH electrode XS 201 T and conductivity cell 2301T** (C=1), both with integrated temperature sensor | 50103902 |
| **PC 50 VIOLAB**<br>WITHOUT ELECTRODE | **With conductivity cell** 2301T (C=1), accessories, cable S7-BNC and temeprature sensor NT 55<br>**Without pH electrode** | 50103912 |