

# Violab

## PC 50

pH - mV - ORP - Cond - TDS - Temperature

## PC 60

pH - mV - ORP - Cond - TDS - Salinity - Temperature  
GLP - Data Logger - RS 232 Printer



### MADE IN ITALY

The first electrochemical instrumentation line completely conceived, designed and produced in Italy is here.

# PC 50 *VioLab*

pH - mV - ORP - Cond - TDS - Temperature

**DHS** Digital **H**igh **S**ensor

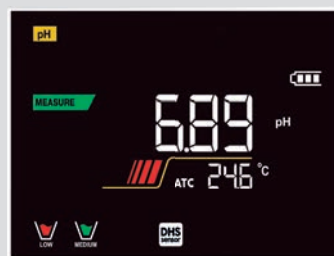
Instruments compatible with DHS digital sensors, for **maximum performance and safety**

Professional bench meters with **innovative backlit high definition colored 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 5 points (84; 147; 1413  $\mu$ 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 **colored LED** above the display and **self-diagnosis messages**.



Connections PC 50 VioLab

The **LED indicator** allows you to keep always under control the state of the measurement



### NEW DISPLAY

The new high-resolution display shows all the useful information, including the buffer used for calibration and the stability icon. Through guided procedures it makes the user experience intuitive and safe, as well as extremely performing.

## How to order:

### PC 50 VIOLAB

Complete with **digital pH electrode XS 201 T DHS** and **conductivity cell 2301T (C=1)**, both with integrated temperature sensor

**code**  
50103892

Complete with **pH electrode XS 201 T** and **conductivity cell 2301T (C=1)**, both with integrated temperature sensor

50103902

With **conductivity cell 2301T (C=1)**, accessories, cable S7-BNC and temperature sensor NT 55 Without pH electrode

50103912

### Inside the box:

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

# PC 60 *VioLab*

pH - mV - ORP - Cond - TDS - Salinity - Temperature - GLP - Data Logger

... only on PC 60 VioLab

- 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](http://www.xsinstruments.com).
- RS 232 external printer connection**



Connections PC 60 VioLab



Only **6 buttons** to easily manage all the functions of the instrument.

#	Date	Time	Value	M.U.	Temp	M.U.	MTC/ATC	DHS
1	16/01/2020	14:53:40	7,00	pH	25,0	°C	MTC	
2	16/01/2020	14:53:40	7,00	pH	25,0	°C	MTC	
3	16/01/2020	14:53:42	7,00	pH	25,0	°C	MTC	
4	16/01/2020	14:53:43	7,00	pH	25,0	°C	MTC	
5	16/01/2020	14:53:44	9,54	pH	25,0	°C	MTC	
6	16/01/2020	14:53:45	10,51	pH	25,0	°C	MTC	
7	16/01/2020	14:53:46	10,51	pH	25,0	°C	MTC	
8	16/01/2020	14:53:47	10,51	pH	25,0	°C	MTC	
9	16/01/2020	14:53:48	10,51	pH	25,0	°C	MTC	
10	16/01/2020	14:53:50	6,40	pH	25,0	°C	MTC	
11	16/01/2020	14:53:51	6,40	pH	25,0	°C	MTC	
12	16/01/2020	14:53:51	6,40	pH	25,0	°C	MTC	

16.01.20 DATE  
14:55 TIME

**7,00** pH  
MTC 25,0 °C

**Information**

Last Cal. pH = 00100100  
Offset = 0,0mV  
Acid 100,0M  
Basic 100,0M

Buttress: (1) 00 00

Last Cal. ORP = 00100100 - 25,0 °C  
Offset = 0,0mV

Buttress: 00

## DATA LINK +

The software allows remote control of the instrument in measure mode, shows all information relating to the instrument and calibrations, data export at the end of the analysis, (also in Excel and PDF format), and the display of measurements in the table and in graphic.

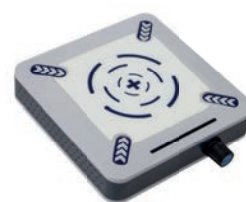
## How to order:

PC 60 VIOLAB	code
Complete with <i>digital pH electrode XS 201 T DHS and conductivity cell 2301T (C=1), both with integrated temperature sensor</i>	50103942
Complete with <i>pH electrode XS 201 T and conductivity cell 2301T (C=1), both with integrated temperature sensor</i>	50103952
With <i>conductivity cell 2301T (C=1), accessories, cable S7-BNC and temperature sensor NT 55 Without pH electrode</i>	50103972

**Inside the box:**  
Electrode holder stand, pH and conductivity buffer solutions, USB cable, power supply and instructions for use.

**Data sheet**

	PC 50 VioLab	PC 60 VioLab
<b>pH</b> Measuring range	0 ... 14,00	-2...16,00
Resolution / Accuracy	0,1, 0,01 / ± 0,02	
Calibration points	1...3 Auto + 2 custom	
Buffer recognized	USA, NIST, 2 custom	
DHS sensors recognition	Yes	
<b>mV</b> Measuring range	-1000 ... +1000	-1000 ... +1900
Resolution	1	0,1 / 1
<b>ORP</b> Calibration point	1 point = 475 mV	
<b>COND</b> Measuring range	0,00 ... 200 mS	
Resolution	0,01 - 0,1 - 1 µS / mS (automatic)	
Accuracy	± 2% f.s.	
Calibration points	1...5	
Buffer recognized	84 µS - 147 µS - 1413 µS - 12,88 mS - 111,8 mS + 1 User	
Reference temperature	15 ... 30 °C	
Temperature coefficient	0,00 ... 10,00 % / °C	
<b>TDS</b> Measuring range	0,1 mg/l... 200 g/l	
TDS Factor	0.40 ... 1.00	
<b>Salinity</b> Measuring range	-	0,1 ppm ... 100 ppt
<b>Temperature</b> Measuring range	0,0...100,0 °C	-10,0...110,0 °C
Resolution / Accuracy	0,1 / ± 0,5 °C	
Temperature compensation	0,0...80,0 °C	0,0...100,0 °C
<b>System:</b> GLP	-	Yes
Calibration due	-	Yes
Calibration point indication	Yes	
Calibration report	Yes	Yes, printable
Stability filter	Low - Nor - High	
Internal memory	-	1000 Data
Display	high definition backlight colored LCD	
Brightness adjustment	Manual	
IP protection	IP 54	
Output	-	Micro USB and RS 232
Power supply	5 V power adapter	
Electrical tension	100 ... 240 V	
Working conditions	0 ... +45 °C	
Dimensions / Weight	160 x 140 x 45 mm / 380 g	



**ST 10 magnetic stirrer**

cod: 50000132



**RS 232 printer**

cod: 50001502



**201 T DHS**

Digital pH electrode with DHS technology. Temperature sensor integrated. Plastic body for general use. Maintenance free. pH: 0...14 - T: 0...60 °C  
cod: 32200103



**2301 T**

Conductivity cell, Temperature sensor integrated Cable 1 m Measuring range: 10µS...200 mS  
cod: 50004002



**GIORGIO·BORMAC**  
s.r.l.

Distributed by:

