



Electrochemistry

Your complete range of electrochemistry tools designed for precision, consistency, and ease of use.

pH 60

pH - mV - ORP - Temperature - GLP - Data Logger - RS 232 Printer

Features



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.



RS 232 external printer connection



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



Connections ph 50

Available With

Item	Description
201 T DHS	Digital pH electrode, DHS technology , plastic body for general use. Temperature sensor integrated. pH 0...14, temperature 0...60 °C. Dimensions (LxØ) mm 120x12
STANDARD DHS	Digital pH electrode, DHS technology. Glass body with temperature sensor integrated. Electrolite KCl 3M, cable 1 m. pH 0...14, Temp -10...100°C
REDOX	Combined Redox electrode. plastic body for general use. Cable 1 m. Range ± 1.000 mV, Temperature 0...60 °C. Dimensions (LxØ) 120 x 12 mm
NT 55	Temperature sensor NTC 30 K for air and liquid measurement
ST 10	Variable speed magnetic stirrer, complete with rechargeable batteries, magnetic bar and power supply
PRINTER	External RS 232 printer with normal paper for XS 60 VioLab
HELECTRODE HOLDER	Flexible electrode holder

Data Sheet

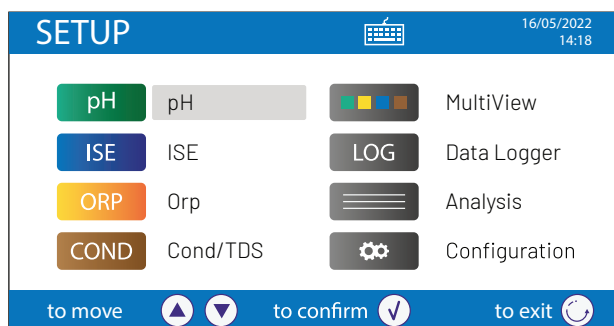
	pH 60
pH Measuring range	-2...16,00
Resolution / Accuracy	0.1, 0.01 / ± 0.02
Calibration points	1...3 Auto + 2 custom
Buffer recognized	USA, NIST
Buffer indication	Yes
Calibration report	Yes, printable
DHS sensor recognition	Yes
Stability filter	Low – Nor - High
mV Measuring range	-1000 ... +1900
Resolution	0.1 / 1
ORP Calibration point	1 point = 475 mV
Temperature Measuring range	-10,0...110,0 °C
Resolution / Accuracy	0,1 / $\pm 0,5^{\circ}\text{C}$
Temperature compensation	0,0...100,0 °C
System : GLP	Yes
Calibration due	Yes
Internal memory	1000 Data
Display	High-definition colored
Brightness adjustment	Manual
IP protection	IP 54
Output	Micro USB and RS 232
Power supply	5 V power adaptor
Electrical tension	100 ... 240 V
Working conditions	0 ... +45 °C
Dimensions / Weight	160 x 140 x 45 mm / 380 g

pH 80

pH - mV- Orp - ISE - Conductibility - TDS - Salinity - Resistivity - Temperature

Main Features

- Simultaneous display up to 6 parameters of user's choice;
- Selectable resolution: 0.1/0.01/0.001 pH; automatic scaling for COND;
- Automatic and manual pH calibration up to 5 points;
- Automatic ISE calibration up to 5 points;
- Automatic or manual ORP calibration on one point;
- Automatic COND calibration up to 4 points and manual 1 point;
- Ultra-pure water compensation for low conductivity measurements;
- Conductivity cell with 2 and 4 rings;
- Selectable cell constant 0.1 / 1.0 / 10;
- Data recall of last calibration;
- Graphical display of electrode condition;
- Min-Max alarm thresholds setting for pH and ORP parameters;
- Analog view;
- Calibration due alarm;
- Data logger up to 8,000 GLP records, downloadable on PC or printer;
- Free "DataLink+" software for data management to PC;
- Multilanguage: Ita - Eng - Deu - Fra - Esp - Por;
- USB connection for PC and RS232 for printer;



New setup menu





Admin
Full management



Responsible
Partial management



User
Safe use

Advanced User Management

The new advanced user management system includes 4 levels of access, for 15 total profiles, with different privileges:

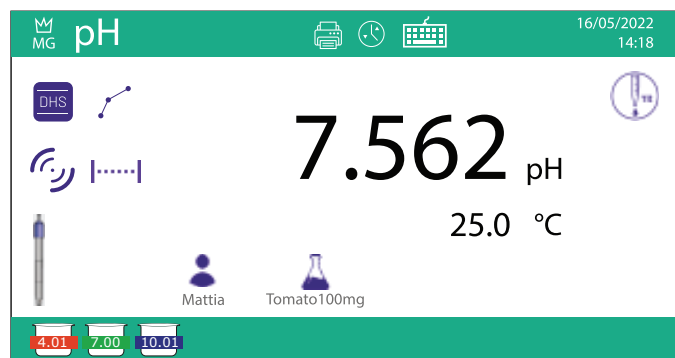
ADMIN - RESPONSIBLE - USER - GUEST

Graphic Display

The 8/80 PRO Series features a large, backlit, 4.3 inch color display that allows all information to be read clearly.

Calibration points, electrode status, user and sample data, working and connection mode, logger type, date and time are displayed.

The smart interface and multilingual menu (6 selectable languages) make these tools extremely easy to use.



Measurement screen



4 Rings Cell

The 80 PRO Series allows the use of the 4-ring conductivity cell, enabling accurate measurements over the entire scale using a single sensor.

MultiView				16/05/2022 14:18
pH	7,000	pH	25,0 °C	
mV	0,0	mV	25,0 °C	
ISE	0.00	mV	25,0 °C	
Cond	12.880	µS/cm	25,0 °C	
TDS	0.00	mg/l	25,0 °C	
SAL	0.00	ppm	25,0 °C	

Multiview

Thanks to the new Multiview function, up to a maximum of 6 parameters can be selected in the PC 80 PRO multiparameter to be displayed simultaneously.

The display shows in real time each parameter, measurement value and temperature.

Analysis Menu

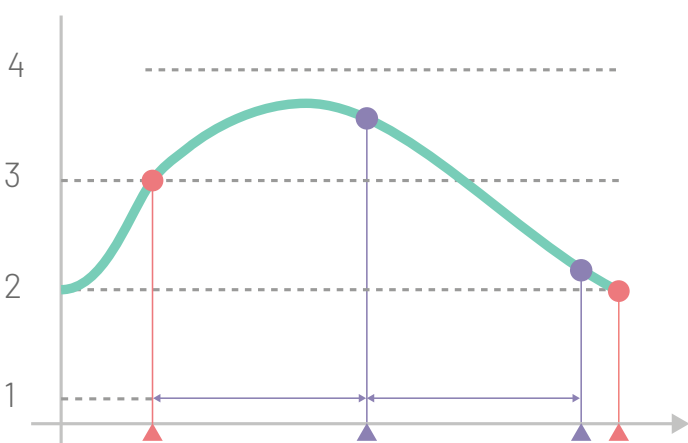
Using the Analysis menu, information regarding the sample, batch, user, supervisor, company, method, environmental conditions, etc. can be entered.

Customizable Templates

Up to 4 customizable templates to tailor the measurement experience to your liking.

The templates allow you to select which Analysis menu items to print or export to the DataLink+ software, so you can customize your analysis reports.

SETUP		16/05/2022 14:18
Sample ID	Tomato 100mg	
User ID	Mattia g.	
Company name	Giorgio Bormac	
Lot production	223355	
Method	305	
PM name	Mattia	
Laboratory	Clinic	
Environmental condition	60,0 °C - 50% RH	
to move	▲ ▼	to confirm ✓ to exit ↺



Data Logger

With four different modes of data saving, the instrument will be autonomous in monitoring the progress of analysis, while the user can focus on other operations in the laboratory:

- Manual Log;
- Automatic Log;
- Log when a Delta is reached;
- Log with Min-Max thresholds;

Data Sheet

	8 Pro Series
pH measuring range	-2 ... 20
Resolution / accuracy	0,1 / 0,01 / 0,001 $\pm 0,002$
Calibration points	1 ... 5
Recognized buffers	USA - NIST - DIN - METTLER TOLEDO - MERCK - DIN/NIST + 5 CUSTOM
Indication of calibration points	Yes with icons
GLP calibration	Yes with date and time
Electrode status indication	Yes with icons and graph
Calibration expiration with alarm	Yes
Measurement stability criteria	Medium - High - Tit (titration)
Alarm settings	Min - Max
mV measuring range (ORP) / Resolution	± 2000 0,1 / 1
ISE measuring range	0,001 ... 19999 ppm
Measuring units	Mol/L mg/L g/L
Calibration points	2 ... 5
COND measuring range	0,00 ... 1000 mS
Resolution	Automatic scale
Accuracy	$\pm 1\%$ full scale
COND Calibration points	1 ... 4
Recognized buffers	84 , 147 , 1413 μ S , 12,88 , 111,8 mS - 1 custom value
Indication of calibration points	Yes with icons
Temperature coefficient	Ultra-pure water - 0,00 ... 10,00 %/°C
Reference temperature	15 ... 30°C
GLP calibration	Yes with date and time
Calibration expiration with alarm	Yes
Cell type	4 rings - 2 rings
Cell constant	0,475 - 0.1 - 1 - 10
TDS measuring range	0,1 mg/L ... 500,0 g/L
TDS Factor/ Accuracy	0.40 ... 1.00 / $\pm 1\%$ full scale
Salinity measuring range / accuracy	0,01 ... 100 ppt / $\pm 1\%$ full scale
Resistivity measuring range / accuracy	1 ... 10 M Ω / $\pm 1\%$ full scale
Temperature °C measuring range / accuracy	-30,0 ... 130,0 °C / $\pm 0,2$ °C
Temperature compensation	Auto e manual 0 ... 100 °C (NTC 30 K Ω)
Temperature calibration	Yes
Advanced user management	4 levels / 15 profiles
Audit trail	Complete
Analysis menu	Yes, up to 4 customizable templates
Multiview	Up to 6 user-selectable parameters
Password	Alphanumeric
Memory	8,000 data with date and time (Man - Auto - MinMax - Delta)
Display	Colored TFT 4,3 "
Inputs	BNC - RCA - Multipin - Ref (banana 4mm)
Connections	2x USB (PC - Keyboard) - RS232 (Printer)
Selectable languages	Ita - Eng - Deu - Fra - Esp - Por
Magnetic stirrer	Yes, independent control
Stirring speed / Capacity	0 ... 3000 rpm / 2 L
IP rating	IP 54
Power supply	AC/DC adapter 12 V / 1000 mA
Dimensions (LxPxA) - Weight	165 x 195 x 68 mm - 1,05 Kg

COND 60

Cond - TDS - Salinity - Temperature - GLP - Data Logger - RS 232 Printer

Features



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.



RS 232 external printer connection



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



Connections COND 60

Available With

Item	Description
VPT 1	Glass/Platinum conductivity cell C=1, temperature sensor integrated. Cable 1 m
VPT 01	Glass/Platinum conductivity cell C=0,1, temperature sensor integrated. Cable 1 m
VPT 10	Glass/Platinum conductivity cell C=10, temperature sensor integrated. Cable 1 m
2301 T	Plastic body conductivity cell C=1, temperature sensor integrated. Cable 1 m
NT 55	Temperature sensor NTC 30 K for air and liquid measurement
ST 10	Variable speed magnetic stirrer, complete with rechargeable batteries, magnetic bar and power supply

Data Sheet

	COND 60
COND Measuring range	0,00 ... 200 mS
Resolution	0,01 - 0,1 - 1 μ S / 0,01 - 0,1 mS
Accuracy	$\pm$ 2% f.s.
Calibration points	1...5 Auto + 1 Custom
Buffer recognized	84 μ S - 147 μ S - 1413 μ S - 12,88 mS - 111,8 mS
Reference temperature	15 ... 30 °C
Temperature coefficient	0,00 ... 10,00 % / °C
Calibration points indication	Yes
Calibration report	Yes, printable
Stability filter	Low – Nor - High
TDS Measuring range	0,1 mg/l ... 200 g/l
TDS Factor	0.40 ... 1.00
Salinity Measuring range	0,1 ppm ... 100 ppt
Temperature Measuring range	-10,0...110,0 °C
Resolution / Accuracy	0,1 / $\pm$ 0,5°C
Temperature compensation	0,0...100,0 °C
System : GLP	Yes
Calibration due	Yes
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

PC 60

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

Features



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.xsstruments.com.



RS 232 external printer connection



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



Connections COND 60 VioLab



Data Sheet

	PC 60
pH Measuring range	-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
mV Measuring range	-1000 ... +1900
Resolution	0.1 / 1
ORP Calibration point	1 point = 475 mV
COND Measuring range	0,00 ... 200 mS
Resolution	0,01 - 0,1 - 1 μ S / mS (automatic)
Accuracy	$\pm 2\%$ f.s.
Calibration points	1...5
Buffer recognized	84 μ S - 147 μ S -1413 μ S - 12,88 mS - 111,8 mS + 1 User
Reference temperature	15 ... 30 °C
Temperature coefficient	0,00 ... 10,00 % / °C
TDS Measuring range	0,1 mg/l ... 200 g/l
TDS Factor	0.40 ... 1.00
Salinity Measuring range	0,1 ppm ... 100 ppt
Temperature Measuring range	-10,0...110,0 °C
Resolution / Accuracy	0,1 / $\pm 0,5^{\circ}\text{C}$
Temperature compensation	0,0...100,0 °C
System: GLP	Yes
Calibration due	Yes
Calibration point indication	Yes
Calibration report	Yes, printable
Stability filter	Low – Nor - High
Internal memory	1000 Data
Display	high definition backlight colored LCD
Brightness	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

pH 70

pH - mV - ORP - Temperature

Features



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



Data logger up to 1000 datas,
automatic and manual,
PC connect via micro-USB



Automatic brightness
regulation, for long battery life.

Available with



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

Item	Description
201 T DHS	Digital pH electrode, DHS technology , plastic body for general use. Temperature sensor integrated. pH 0...14, temperature 0...60 °C. Dimensions (LxØ) mm 120x12
STANDARD DHS	Digital pH electrode, DHS technology. Glass body with temperature sensor integrated. Electrolite KCl 3M, cable 1 m. pH 0...14, Temp -10...100°C
REDOX	Combined Redox electrode. plastic body for general use. Cable 1 m. Range ± 1.000 mV, Temperature 0...60 °C. Dimensions (LxØ) 120 x 12 mm
NT 55	Temperature sensor NTC 30 K for air and liquid measurement
ST 10	Variable speed magnetic stirrer, complete with rechargeable batteries, magnetic bar and power supply
ELECTRODE HOLDER	Flexible electrode holder

A comfortable portable laboratory.

The instrument is supplied in a practical kit
which includes:
Colored buffer solutions of pH, USB cable and power
supply (70 Vio series only),
instructions for use and plastic carrying case.



Datasheet

pH 70

pH 70	
pH Measuring range	-2,00...16,00
Resolution / Accuracy	0.1, 0.01 / +0.02
Calibration points	1...3 automatic + 2 custom
Recognized buffers	USA, NIST
DHS sensor recognition	Yes
mV Measuring range	-1000 ... +1900
Resolution	0.1 / 1
ORP Calibration points	1 point = 475 mV
Temperature Measuring range	-10,0...110,0 °C
Resolution / Accuracy	0,1 / ± 0,5°C
Temperature compensation	0,0...100,0 °C
System : GLP	Yes
Calibration due	Yes
Buffer indication	Yes
Calibration report	Yes
Stability filter	Low – Nor - High
Internal memory	1000 Data
Display	High definition backlight colored LCD
Brightness settings	Automatic
IP protection	IP 57
Output	Micro USB
Power	3 batteries AA 1,5 V
Working conditions	T= 0 ... +45 °C / H = < 95 %
Dimensions / Weight	185 x 85 x 45 mm / 400 g

COND 70

Cond - TDS - Salinity - Temperature

Features



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



Data logger up to 1000 datas,
automatic and manual,
PC connect via micro-USB



Automatic brightness
regulation, for long battery life.

Available with

Consumables provided

Optical sensor , with temperature sensor integrated.
Cable lenght: 2 meters

Optical sensor , with temperature sensor integrated.
Cable lenght: 10 meters

Replacement membrane for Optical sensor

Polarographic sensor, with temperature sensor integrated, cable lenght 3 m, 2 replacement membranes, refill solution (30ml)

Kit of 2 replacement membranes for polarographic sensor

Refill solution for polarographic sensor



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

A comfortable portable laboratory.

The instrument is supplied in a practical kit which includes:
0 Oxygen standard, replacement membrane, USB cable and power supply (70 Vioseries only), user manual and plastic carrying case.



Datasheet

COND 70

COND Measuring range	0,00 ... 200 mS
Resolution	0,01 - 0,1 - 1 µS / mS (automatic)
Accuracy	± 2% f.s.
Calibration points	1...5 automatic + 1 custom
Recognized buffers	84 µS - 147 µS - 1413 µS - 12,88 mS - 111,8 mS
Reference temperature	15 ... 30 °C
Temperature coefficient	Temperature coefficient 0,00 ... 10,00 % / °C
Buffer indication	Yes
TDS Measuring range	0,1 mg/l ... 200 g/l
TDS factor	0,40 ... 1.00
Salinity Measuring range	0,1 ppm ... 100 ppt
Temperature Measuring range	-10,0...110,0 °C
Resolution / Accuracy	0,1 / ± 0,5°C
Temperature compensation	0,0...100,0 °C
System : GLP	Yes
Calibration due	Yes
Buffer indication	Yes
Calibration report	Yes
Stability filter	Low – Nor - High
Internal memory	1000 Data
Display	High definition backlight colored LCD
Brightness adjustment	Automatic / Manual
IP protection	IP 57
Output	Micro USB
Power	3 batteries AA 1,5 V
Working conditions	T= 0 ... +45 °C / H = < 95 %
Dimensions / Weight	185 x 85 x 45 mm / 400 g

O₂ -

Barometric pressure - Temperature - GLP - Data Logger

Features



GLP functions:

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



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



Automatic brightness regulation, for long battery life.

Available with

Description
Optical sensor , with temperature sensor integrated. Cable lenght: 2 meters
Optical sensor , with temperature sensor integrated. Cable lenght: 10 meters
Replacement membrane for Optical sensor
Polarographic sensor, with temperature sensor integrated, cable lenght 3 m, 2 replacement membranes, refi ll solution (30ml)
Kit of 2 replacement membranes for polarographic sensor
Refill solution for polarographic sensor



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

A comfortable portable laboratory. The instrument is supplied in a practical kit which includes:
0 Oxygen standard, replacement membrane, USB cable and power supply (70 Vio series only), user manual and plastic carrying case.



Datasheet

OXY 70	
O2 dissolved Measuring range	0,00...50,0 mg/l
Resolution	0.01 (< 20,00 mg/l) / 0.1 (> 20,0 mg/l)
Accuracy	± 0,2 < 10 mg/l-ppm ± 0,3 from 10 to 20 mg/l-ppm ± 5% > 20 mg/l-ppm
O2 saturation Measuring range	0,0...199,9 % / 200...400%
Resolution	0,1 / 1%
Accuracy	± 10%
Calibration point	1 or 2 automatic
Calibration point indication	Yes
Calibration report	Yes
Barometric pressure Measuring range	0...1100 mbar
Resolution	1 mbar
Accuracy	± 0,5%
Pressure automatic compensation	Yes
Temperature Measuring range	-10,0...110,0 °C
Resolution	± 0,1°C
Accuracy	± 0,5°C
Temperature compensation	Yes, only automatic
Salinity compensation	Yes, manual
System : GLP	Yes
Calibration due	Yes
Internal memory	1000 Data
Display	High definition backlit colour LCD
Brightness adjustment	Automatic
IP protection	IP 57
Output	Micro USB
Working conditions	T= 0 ... +45 °C / H = < 95 %
Power	3 batteries AA 1,5 V / Power supply 5 V
Dimensions / Weight	185 x 85 x 45 mm / 400 g

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Service Support:

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