

PORT510TA Portable pH/Conductometer Multi-parameter Water Analyzer

Product Details

Product Number

PRO5918



Technical Specification:

Features

GENERAL FEATURES

- Color TFT display 16.7 million colors resolution 320x240px, 3.5 inches
- Multi-reading feature allows auto-read, timed-read and continuous-read.
- Simultaneous display of temperature. Conductivity and Ph
- Automatic/Manual temperature compensation ensures accurate results.
- Auto-hold feature senses and locks the measurement endpoint.
- Recognition up to 10 electrodes/sensors.
- Two level data privileges: expert and routine.
- Automatic function for interval calibration.
- Support for USB A/B mini 2.0 communication for printer and computer data transfer (LIMS or Excell).
- Possibility of data print according GLP/ISO
- Auto-power off feature effectively extends the battery service life.
- Reset feature automatically resumes all settings back to factory default options.
- IP67/DIN EN 60529 waterproof. The portable meter is suitable for fields measurements and outdoor measurements.

pH

- 1-5 points calibration with Standard Recognition.
- Selectable pH buffer groups, including NIST, DIN, GB.
- Automatic electrode diagnosis with pH slope and offset display.

Ion

- 1-5 points calibration.

- Selectable measurement unit, including µg/L, mg/L, g/L, mmol/L, pX, ppm, etc.
- Measurement modes are supported, including Direct Reading mode, Standard Addition mode, Sample Addition mode and GRAN mode.
- Over 10 methods are built-in, including F-, Cl-, Br-, I-, NO3-, BF4-, NH4+, K+, Na+, Ca2+, Cu2+, Pb2+, Ag+ and etc., user-defined method is supported.

Conductivity

- 1-3 points calibration with Standard Recognition.
- Settable parameters, including cell constant, temperature compensation coefficient, and TDS factor.
- Temperature compensation type (none, linear, pure water).

DO

- Support for air-saturated water or zero oxygen calibration.
- Auto barometric pressure compensation
- Manual Salinity Factor Correction
- Selectable pressure unit, including kPa, mbar, Torr, Atm.

Includes

- Electrode holder
- Silicone rubber case
- Wristbands
- Carrying Case

Specifications

Model		PORT510TA
Parameters		pH/EC/ISE/DO/Temp. (mV/pX/Resistivity/TDS/Sal. /DO Saturation)
pH	Range	-13.000 to 20.000 pH
	Resolution	0.001
	Accuracy	±0.003 pH
	Calibration Points	Up to 5 buffers
	Standard Customization	Yes
	Calibration Reminder	Yes
	Standard Recognition	NIST, GB, USA and DIN buffers
	Slope Limit	Yes
mV	Range	-1200 to +1200 mV
	Resolution	0.1 mV
	Accuracy	±0.2 mV
pX	Range	-2.00 to 20.00 pX
	Resolution	0.1, 0.01 pX
	Accuracy	±0.01 pX
	Calibration Points	Up to 5

ISE	Range	1.000e-9 to 9.999e+9
	Units	mol/L, mmol/L, g/L, mg/L, µg/L, ppm, ppb
	Resolution	Up to 4 significant digits
	Accuracy	±0.5%
	Calibration Points	Up to 5
	Range	0.1 µS/cm to 500 mS/cm
Conductivity	Resolution	4 significant places ±0.5% at 0.1 µS - 16 µS ±0.5% at 16 µS - 1 mS ±1.0% at 1 mS - 500 mS
	Accuracy	±0.5% range 0.1µS/cm-100µS/cm
	Reference Temperature	20, 25 °C
	Calibration Points	Up to 3
	Standard Recognition	84µS/cm, 1413µS/cm, 12.88mS/cm
	Range	5.00 Ω·cm~20.00 MΩ·cm
Resistivity	Resolution	0.01Ω·cm minimum,
	Accuracy	±1.0% FS
	Range	0.00 ppm~300 ppt
TDS	Resolution	0.01mg/L minimum, 3 significant digits
	Accuracy	±1.0%FS
Salinity	Range	0.0~80.0 ppt
	Resolution	0.1ppt
	Accuracy	±2ppt
Dissolved Oxygen Concentration	Sensor Type	Polarographic
	Range	0.00 to 50.00 ppm
	Resolution	0.01mg/L
	Accuracy	±0.10ppm
	Calibration Points	Air-saturated water or zero point
	Barometric Compensation	Yes
Saturation	Manual Salinity Factor Correction	Yes
	Range	(0.0 to 300.0) %
	Resolution	0.10%
	Accuracy	±2.0%
	Range	PT1000 -150 to 250 °C
Temperature	Unit	°C
	Resolution	0.1°C
	NTC	30 kΩ, Measuring range: -5°C - +250°C, Resolution: 0.1°C Measuring accuracy: ±0.6°C (+10°C - +40°C)
	Accuracy	±0.2°C (-20°C to +150°C)
	Reading Mode	Auto-Read (Fast, Medium, Slow), Timed, Continuous
Measurement	Reading Prompts	Reading, Stable, Locked
	Temp. Compensation	ATC, MTC
Data management	Data Storage	10000 results (date, time and identification)
	GLP Features	Yes

	Analog pH Electrode	BNC(Q9)
Measuring Inputs	Analog Reference Electrode	4-pin aviation connector
	Analog Conductivity Electrode	5-pin aviation connector
Outputs	USB	PC, printer
	Backlight	Yes
Display options	Auto Shutdown	300, 600, 1200, 1800, 3600sec., off
	IP Rating	IP67
	Date and Time	Yes
	Power	Rechargeable Lithium polymer battery 3.7V, 3000 mAh DC Adapter, 100-240V AC input, DC5V output 1.5A working autonomy 8h Battery charging: Adapter 9h. USB port 15h
Standard	Accessories	-Combined 0-13pH, temp range 0-60°C, Fiji cable, ground joint diaphragm, 3 in 1 pH Electrode with Pt1000 temperature probe, referent electrolyte c (KCl) = 3mol/L for pure water -EC Electrode cell constant c=0.1cm-1 Pt1000 0-300µS/cm temp range 0-70°C min immerse 35mm, stainless steel -Electrodes holder, Base stand, for laboratory use -Electrolytic standard for pH KNO3 1M 250ml -KCl 3M 250ml -Buffer NIST 4.01pH. 250ml -Buffer NIST 7.00pH 250ml -Buffer NIST 9.21pH 250ml -Conductivity standard 5µS/cm
	Dimensions	90 x 255 x 40 mm
	Weight	500g (1.1 lb)
	Dimensions (Carton)	490×410×220 mm
	Weight (Gross)	5.5 kg

Accessories: