



ProLab 4000 Multiparameter Benchtop Meter

Professional multiparameter benchtop meters for laboratory analysis.



Description

The ProLab 4000 professional multiparameter benchtop meters were designed to perfectly match SI Analytics world class conductivity, pH, and ion selective electrodes. With a measuring range from 0.000 uS/cm to 2000 mS/cm, TDS and salinity measurement as well as various functions for temperature compensation and setting up the cell constant the meters set the standard for professional instrumentation. The meter uses a special conductivity compensation procedure to eliminate potential temperature and concentration errors. In addition to the conductivity offering the meters measure pH in the range of -2.000 to +20.000 pH with an accuracy of 0.002 pH and 0.1 mV and an automatic temperature measurement range of -31°F to 302°F (-35°C to 150°C).

The meter's wireless sensor recognition and user identification features mean that every stored measurement can be assigned an electrode and user ID. The meter reads the electrode's individual data (slope, zero point, ID number, and date of last calibration) directly from the special ID sensor. The meters also comply with further requirements by allowing you to set administrator rights or set up user identification via an electronic ID card. A special key ring pendant with a transponder is utilized as an "ID card" to identify registered users with the meter.

With a timeless, classy design the professional multiparameter benchtop meter's case reflects the top quality rating of the ProLab instruments. Housed in a solid metal body the meter's big and brilliant graphic display is protected by a one piece glass slide.

The data can be stored on the multiparameter benchtop meters in seven selectable intervals from 1 second to 60 minutes in addition to being able to select the measuring parameters. Additionally the 32 MB of flash memory and 32 MB of RAM allow for a huge amount of data recordings, however if this is not enough memory a USB stick can be directly connected to the meter to increase the memory capacity.

- Automatic user identification
- Automatic sensor recognition
- 2 channel pH/mV measurement
- Professional ISE measurement
- Fast and easy GLP compliant documentation

Specifications

pH:
Range: -2.000 to 20.000 pH, -2.00 to 20.00 pH, -2.0 to 20.0 pH
Accuracy (± 1 digit): ± 0.002 pH, ± 0.01 pH
Calibration: 22 pre-programmed pH buffer sets
Maximum pH calibration points: 5
Manual calibration with selectable buffers: Yes

mV:
Range: -2200.0 to 2200.0 mV
Accuracy (± 1 digit): ± 0.1 mV, ± 1 mV
AutoRange function: No
mV differential measurement: Yes

ISE Measurement:
Range: 1.0E-40 to 9.9E39 mg/l
Display: %, ppm, mg/kg, mol/l
ISE Calibration Points: 2 to 9
Standard Concentrations: 1.00E-30 to 1.00E30 mg/l
Methods: Standard addition, double standard addition, standard subtraction, sample addition, sample subtraction, blank addition, blank correction, reference measurement

Conductivity Measurement:
Conductivity Range: 0.000 to 2000 mS/cm
Salinity Range: 0.0 to 70.0 according to the IOT table
TDS Range: 0 to 2000 (factor can be set in the range 0.40 to 1.00)
Conductivity Accuracy (± 1 digit): ± 0.5 %
Salinity Accuracy (± 1 digit)(0.0 to 42.0): ± 0.1 (41 to 77 °F(5 to 25 °C)), ± 0.2 (77 to 86 °F(25 to 30 °C))
TDS Accuracy (± 1 digit): ± 1 mg/l

Temperature:
Range: -31.0 to 302 °F (-35.0 to 150.0 °C)
Accuracy (± 1 digit): ± 0.2 °F (± 0.1 °C)
Selectable °F/°C units: Yes
Automatic switch to manual temperature input when no temperature sensor is connected: Yes

Mechanical and electrical
Channels: 2 (galvanically separated)
Data Storage: >10000 data sets with intervals from 1 second to 60 minutes
Calibration History: Last 10 calibrations
USB (slave) and RS232 interface: Yes
USB (host): Yes
Power Supply: External 100-240VAC, 50/60 Hz
Dimensions (WxHxD): 9.45x11.02x2.76in (240x280x70mm)
Weight: 5.5 lb (2.5 kgs)

For more specifications visit www.globalw.com

Options and Accessories

ProLab 4000 Multiparameter Benchtop Meter Set (PN# 285203870)
Includes ProLab 4000 meter, IL-pH-A170-BNC-N pH electrode, LF413TID conductivity electrode, and accessories

ProLab 4000 Multiparameter Benchtop Meter Set (PN# 285204260)
Meter only.

See www.globalw.com for more options.