



Lab 850 Benchtop pH Meter

Benchtop pH meters for laboratory analysis.



Description

The Lab 850 pH meter was designed to perfectly match SI Analytics world class electrodes. All of the Lab 8xx series meters feature an advanced measuring algorithm specially adapted to SI Analytics electrodes. The result is a meter which can be calibrated to high precision and provide accurate measurements in a shorter time period than many other pH meters. The meters achieve their accuracy by using a feature called CalClock which provides a unique combination of sensor evaluation and timer which controls all relevant calibration settings. The sensor evaluation displays the pH electrode's quality in increments monitoring the slope, zero point, and reaction time. The preset calibration interval is displayed as a countdown in six steps. When the time interval has elapsed an optical and acoustic signal is activated. The Lab 850 meters can also store up to 800 data records and transfer them to your PC via a conventional RS232 port.

The Lab 860 meter includes all the features of the Lab 850 pH meter with the addition of a USB interface to transfer stored data directly to your computer. The Lab 860 meters also have a 5 point pH calibration function to allow for extremely precise pH measurements.

The Lab 870 meter includes all the features of the Lab 850 pH meter with the addition of a USB interface which allows them to send the data directly to your computer. Because no data is stored on the meter they are easily integrated into automated systems such as LIMS. The meters include easy documentation which complies with GLP and automatically recognize which electrode is attached and the person using it. For each measurement the pH electrode logs into the meter with its ID (type and serial number) and sends its calibration data to assure that only the sensor's specific data is used to calculate the measured value.

- Reliable and precise measurements
- CalClock calibration timer
- GLP documentation for Lab 860 and 870
- Auto sensor recognition for Lab 870

Specifications

pH:

Range: -2.000 to 19.999 pH, -2.00 to 19.99 pH

Accuracy (± 1 digit): ± 0.005 pH, ± 0.01 pH

Calibration: 16 pre-programmed pH buffer sets

Automatic buffer recognition and display: Yes

Maximum pH calibration points: 3 Lab 850 and Lab 870, 5 Lab 860

mV:

Range: -999.9 to 999.9 pH, -1999 to 1999 pH

Accuracy (± 1 digit): ± 0.3 mV, ± 1 mV

Calibration: pre-programmed pH buffer sets: 16

AutoRange function: Yes (can be switched off)

Temperature:

Range: 23 to 248 °F (-5.0 to 120.0 °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

Display: 3x2.4 inch (75x60 mm)

Data Storage: Lab 860 only - 800 data sets with intervals from 5 seconds to 60 minutes

USB (slave) and RS232 interface: Lab 860 and Lab 870

Lower casing: Plastic

Keypad: Plastic foil with tactile response

Power Source: External 100-240VAC, 50/60 Hz or 9V battery

Automatic power shutoff (battery): Yes, adjustable 10 minutes to 24 hrs

Dimensions (WxHxD): 9.45x7.48x3.15in (240x190x80mm)

Weight: 2.2 lb (1.0 kgs)

Compliance: CE, cETLus

Safety: protection class III

Climate class: 2 (VDI/VDE 3540)

Warranty: 3 years

Options and Accessories

Lab 850 Benchtop pH Meter Set (PN# 285204070)

Includes Lab 850 meter, BlueLine 15 pH electrode, and accessories

Lab 860 Benchtop pH Meter Set (PN# 285204120)

Includes Lab 860 meter, BlueLine 15 pH electrode and accessories

Lab 870 Benchtop pH Meter Set (PN# 285204160)

Includes Lab 870 meter, BlueLine 15 pH electrode, and accessories

See www.globalw.com for more options.



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