



pH100A HANDHELD pH METER

Simple pH meter for field measurements



Description

The model pH100A handheld pH meters are part of the EcoSense family of products. These meters are precision tools that measure pH, mV, and temperature. Whether the need is a single monitoring instrument for temperature and pH or mV for wastewater, surface water, or aquaculture, the pH100A is up to the task. The low overall cost of ownership includes an economical list price, competitively priced probes compared to other manufacturers, and rugged, reliability limiting down time. Designed specifically for spot sampling applications, the pH100A will fill the need for simple, one-handed operation instrumentation. The meter is available with pH, mV, ORP, and ATC (Automatic Temperature Compensation) probes. The pH100A handheld pH meters also allow you to connect a flat-tipped, piercing-tipped, and lab grade pH probe for additional applications.

A built-in microprocessor stores, calculates and compensates for all parameters for the pH meters related to pH determinations including pH electrode temperature characteristics, electrode slope deviations, and buffer solutions. The handheld pH meters are waterproof (IP67) when the connector cap is installed. The mechanical touch keys are highly reliable with tactile and audio feedback. They use one 9V battery which provides up to 1000 hours of battery life. The meters offer a low battery indicator and an automatic shutoff feature to help you maintain your instrument. The front has a large LCD that displays pH or mV and temperature simultaneously along with user prompts and mode indicators.

- Graphic display with on-screen instructions
- 50-set memory (pH, temp, date and time stamp)
- Automatic calibration and buffer recognition
- IP67 waterproof housing
- User-replaceable single- or double-junction electrodes

Specifications

pH Range: -2.00 to 16.00 pH
mV Range: -1999 to 1250 mV
Temperature Range: 14.0 to 248 °F (-10.0 to 120 °C)
pH Accuracy: $\pm 0.1\%$, ± 2 lsd
mV Accuracy: $\pm 0.1\%$, ± 1 lsd
Temperature Accuracy: ± 0.9 °F (± 0.5 °C)
pH Resolution: 0.01 pH
mV Resolution: 1 mV
Temperature Resolution: 0.2 °F (0.1 °C)
ATC Probe: Thermistor, 10k Ω at 77 °F (25 °C)
pH Temperature Compensation: Auto/Manual 14.0 to 248 °F (-10.0 to 120.0 °C)
pH Buffer Recognition: (4.01, 7.00, & 10.01) or (4.00, 6.86, & 9.18)
pH Calibration Temperature: 32 to 140 °F (0 to 60 °C)
pH Offset Recognition: ± 90 mV at pH 7.00 or 6.86
pH Slope Recognition: $\pm 30\%$ at pH 4.00, 4.01, 9.18, or 10.01
Display: LCD
Calibration Back-up: Yes
Audio Feedback: Yes, on all touch keys
Autolock: Yes
Data Memory: 50 data set reviewable memory
Operation Temperature Range: 32 to 122 °F (0 to 50 °C)
Operation Relative Humidity Range: up to 95%
IP Rating: IP 67
Power: One 9V battery
Battery Life: ~1000 hours or greater (low battery indicator)
Size (LxWxD): 7.37x3x1.5 inch (18.7x7.6x3.8 cm)
Weight: 0.6 lb (270g)
Warranty: 1 year meter and six months electrode-cable assembly
Test certificates: CE

Options and Accessories

pH100CCA-01 pH Meter Kit (PN# 606075)

Includes meter, 3.3 ft (1 m) cable and attached pH/temperature probe, and carrying case

pH100CCA-04 pH Meter Kit (PN# 606033)

Includes meter, 13.1 ft (4m) cable and attached pH/temperature probe, and carrying case

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Our Address:
2440 Gold River Rd, Ste 210
Gold River, CA 95670