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EcoSense pH100A pH/ORP/mV/Temperature

Accurate, economical, handheld measurements



Parameters:

pH

Temperature

mV/ORP/Redox (oxidation reduction potential)

The EcoSense® line of compact, handheld instruments provides the most accurate data in the most affordable format. The instruments feature an easy-to-use interface, one-hand operation, IP67 waterproof case, and low cost of ownership over the life of the product. The pH100A measures pH, mV/ORP and temperature with the following features:

- IP67 Waterproof housing
- 1-year instrument warranty
- Internal buffer recognition (US or NIST buffer sets)
- Auto/Manual temperature compensation
- Electrode offset recognition
- Low battery indicator with 1000 hour battery life
- Displays electrode efficiency
- Autolock mode holds stable readings on display
- Auto shutoff function after 30 minutes of inactivity
- 50 data set memory

The pH100A is designed for quick, accurate results in an economical platform. The ability to measure pH, mV/ORP, and temperature in a simple, compact handheld allows the instrument to be used in multiple applications. With a one-year instrument warranty, six-month electrode warranty, calibration backup, and a variety of cable/sensor options (glass bulb, flat tipped, and piercing tipped), the pH100A will fit your needs.

The EcoSense pH100A is also available as a kit with a 1- or 4-meter cable.



pH100A Instrument Only Specifications

| | | |
|-------------|------------|---|
| Temperature | Range | -10 to +120°C (14 to 248°F) |
| | Resolution | 0.1°C |
| | Accuracy | ±0.3°C ±1 digit |
| pH | Range | -2 to 16 units |
| | Resolution | 0.01 unit |
| | Accuracy | ±0.01% of full scale or ± 0.03 pH units System Accuracy (Instrument, sensor, cable): ±0.2 pH units |
| mV | Range | -1999 to +1999 mV |
| | Resolution | 1 mV |
| | Accuracy | ±0.1% ±1 digit |

pH100A Additional Specifications

| | | |
|-----------------------|--|---------------------------|
| Operating range | Temperature | 0° to 50° C (32 to 122°F) |
| | Relative Humidity | up to 95% |
| Water rating | IP67 waterproof | |
| Size | 78 mm wide (widest point) x 184 mm long x 37 mm deep (3.1 in. x 7.25 in. x 1.45 in.) | |
| Weight with battery | 272 grams (0.6 lb.) | |
| ATC Probe | Thermistor, 10kΩ / 25° C | |
| Battery | One 9 volt included with purchase; 1000 hour battery life | |
| pH temp compensation | Auto/Manual -10.0° C to 120.0°C (14 to 248°F) | |
| pH buffer recognition | US (4.00, 7.00, & 10.00 at 25°C or 4.00, 7.02 & 10.06 at 20°C) or NIST (4.01, 6.86, & 9.18 at 25°C or 4.00, 6.87 & 9.23 at 20°C) | |
| pH calibration temp | 0°C to 60°C (32 to 140°F) | |
| pH offset recognition | ±90 mV at pH 7.00 or 6.86 | |
| pH slope recognition | ±30% at pH 4.00, 4.01, 9.18, or 10.01 | |
| Calibration back-up | Yes | |
| Audio feedback | Yes, all keys | |
| Autolock feature | Yes | |
| Memory | 50 data set reviewable memory | |
| Auto shutoff | Automatically powers off after 30 minutes of inactivity | |

pH100A Ordering Information (order items separately or as a kit)

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|--------|--|
| 606075 | pH100A pH, mV and temperature instrument only |
| 606067 | pH100A instrument, 1-meter cable and electrode, hard-sided carrying case kit |
| 606033 | pH100A instrument, 4-meter cable and electrode, hard-sided carrying case kit |
| 605377 | 1-meter waterproof field cable with combo pH electrode and temperature |
| 605378 | 4-meter waterproof field cable with combo pH electrode and temperature |
| 605374 | 1-meter pH laboratory grade cable and electrode |
| 605080 | 1-meter pH piercing tipped, double-junction cable and electrode |
| 605081 | 1-meter pH flat tipped, double-junction cable and electrode |
| 605376 | 1-meter ORP laboratory grade cable and electrode |
| 605375 | 1-meter temperature cable and probe |
| 606031 | Hard-sided, plastic carrying case with form fitted foam insert; 31.75 x 22.86 x 9.4 cm (12.5 x 9 x 3.7 in) |
| 605380 | pH 4, 7, 10 electrode simulator (ensures instrument performance) |
| 603824 | pH Buffers; Assorted case of 2 pints each of 4, 7, and 10 |

YSI

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