EcoSense pH100A pH/ORP/mV/Temperature
Accurate, economical, handheld measurements

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.
### pH100A Instrument Only Specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Temperature</strong></td>
<td>Range: -10 to +120°C (14 to 248°F)</td>
</tr>
<tr>
<td></td>
<td>Resolution: 0.1°C</td>
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<tr>
<td></td>
<td>Accuracy: ±0.3°C ±1 digit</td>
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<tr>
<td><strong>pH</strong></td>
<td>Range: from -2 to 16 units</td>
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<tr>
<td></td>
<td>Resolution: 0.01 unit</td>
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<tr>
<td></td>
<td>Accuracy: ±0.01% of full scale or ± 0.03 pH units</td>
</tr>
<tr>
<td><strong>System Accuracy</strong></td>
<td>Instrument, sensor, cable: ±0.2 pH units</td>
</tr>
<tr>
<td><strong>mV</strong></td>
<td>Range: from -1,999 to +1,999 mV</td>
</tr>
<tr>
<td></td>
<td>Resolution: 1 mV</td>
</tr>
<tr>
<td></td>
<td>Accuracy: ±0.1% ±1 digit</td>
</tr>
</tbody>
</table>

### 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)

- **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

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