

HI 98140 • HI 98150

Portable pH Meter with SMART Electrodes

- pH Calibration Check™ Electrode Diagnostics
- Waterproof
- Up to five point pH calibration
- Up to seven automatically recognized pH buffers and up to two custom pH buffers (HI 98150 only)
- Log on demand (500 samples)
- GLP features
- Auto endpoint
- User-selectable "calibration time out"
- Backlit, multi-level LCD display
- Tutorial messages on LCD
- Opto-isolated USB
- BEPS and % battery life on display
Battery Error Prevention System alerts the user in the event that low battery power could adversely affect readings

HI 98140 and HI 98150 are portable Calibration Check™ pH meters that utilize HANNA's SMART electrode technology.

SMART electrodes incorporate a chip, which stores the calibration data performed with a specific instrument. When the "SMART" electrode is attached to the meter again, it is automatically recognized. This allows the operator to optimize time and efficiency with unsurpassed safety. It also avoids erroneous measurements taken in the event the pH electrode is substituted after calibration.

ORDERING INFORMATION

HI 98140 and HI 98150 are supplied with HI 1618D pH electrode, HI 70004 pH 4.01 buffer solution sachet, HI 70007 pH 7.01 buffer solution sachet, HI 70000 electrode cleaning solution sachet, HI 700661 electrode cleaning solution sachet, batteries, instructions and hard carrying case.

ELECTRODES

HI 3620D PEI body, Pre-amplified ORP electrode with "SMART" technology, DIN connector and 1 m (3.3') cable

SOLUTIONS

HI 5004L pH 4.01 buffer solution, 500 mL
 HI 5007L pH 7.01 buffer solution, 500 mL
 HI 5010L pH 10.01 buffer solution, 500 mL
 HI 70300L Electrode storage solution, 500 mL
 HI 7061L Electrode cleaning solution, 500 mL

ACCESSORIES

HI 92000 Windows® compatible software
 HI 920014 Mini USB connection cable



| SPECIFICATIONS | | HI 98140 | HI 98150 |
|--------------------------|-------------|---|---|
| Range | pH | -4.0 to 20.0 pH; -4.00 to 20.00 pH | |
| | mV | - ±699.9; ±2000 mV | |
| | Temperature | -20.0 to 120.0°C (-4.0 to 248.0°F) | |
| Resolution | pH | 0.1 pH; 0.01 pH | |
| | mV | 0.1 mV (±699.9 mV); 1 mV (outside) | |
| | Temperature | 0.1°C (0.1°F) | |
| Accuracy (@20°C) | pH | ±0.1 pH; ±0.01 pH | |
| | mV | ±0.2 mV (±699.9 mV); ±1 mV (±2000 mV) | |
| | Temperature | ±0.2°C (±0.4°F) excluding probe error | |
| pH Calibration | | up to three point calibration with seven standard buffers available (1.68, 4.01, 6.86, 7.01, 9.18, 10.01, 12.45), and two custom buffers | up to five point calibration with seven standard buffers available (1.68, 4.01, 6.86, 7.01, 9.18, 10.01, 12.45), and two custom buffers |
| Offset Calibration | | ±1 pH | |
| Slope Calibration | | from 80 to 110% | |
| Temperature Compensation | | manual or automatic from -20.0 to 120.0 °C (-4.0 to 248.0 °F) | |
| pH Electrode | | HI 1618D PEI body, pre-amplified pH electrode with "SMART" technology, internal temperature sensor, DIN connector and 1 m (3.3') cable (included) | |
| Logging | | log on demand, 500 samples | |
| PC Connection | | opto-isolated USB with optional HI 92000 software | |
| Input Impedance | | 10 ¹² Ohm | |
| Battery Type / Life | | 1.5V AAA (3) / approximately 200 hours of continuous use without backlight (50 hours with backlight). User selectable auto-off (5, 10, 20, 60 minutes or can be disabled) | |
| Environment | | 0 to 50°C (32 to 122°F); RH max 100% | |
| Dimensions | | 185 x 72 x 36 mm (7.3 x 2.8 x 1.4") | |
| Weight | | 300 g (10.6 oz.) | |

For a complete list of Solutions and Electrodes, see the end of this section.

