

Rugged Waterproof Meters

Hanna 98 Series - pH/ORP, ISE, EC/TDS, DO



Reliable. Rugged. High-performance.

Bottom line

For scientists and professionals who require accurate laboratory grade results in the field, on the production floor, or in the lab, Hanna's 98 Series meters are rugged, waterproof handhelds that deliver accurate results. Unlike testers or benchtops, the 98 Series offers high performance and precision in a portable design.

Benefits

All-inclusive

Hanna's 98 Series of meters includes everything you need for field and lab testing in a custom-molded carrying kit. This includes buffers, maintenance solutions, and beakers.

Durable by design

You can be confident that your meter will stand up to the wear and tear of portable use. These meters are waterproof (IP67) and are built to withstand dust and debris.

Confidence in your data

Hanna's CAL Check™ electrode diagnostics system alerts you to potential calibration problems so that you know your results are trustworthy every time.



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pH/ORP Meter - HI98190

Range: -2.000 to 20.000 pH; ± 2000 mV
 Logging: 200 samples (100 pH and 100 mV range)
 Battery Type/Life: 1.5V AA batteries (4) / 200 hours of continuous use.

HI12963

Titanium body, pH electrode with internal temperature sensor, quick DIN connector, and 1 m (3.3') cable



pH/ORP/ISE Meter - HI98191

Range: -2.000 to 20.000 pH; ± 2000 mV; from 1.00 E^{-7} to 9.99 E^{10} ISE concentration
 Logging: 300 samples (100 each range pH, mV and ISE)
 Battery Type/Life: 1.5V AA batteries (4) / 200 hours of continuous use.

HI72911B

Titanium body, pH electrode with internal temperature sensor, BNC connector, and 1 m (3.3') cable



EC/TDS/Resistivity/Salinity Meter - HI98192

Range: $0.000 \mu\text{S}/\text{cm}$ - $1000.0 \text{ mS}/\text{cm}$; 0.00 ppm - 400.0 ppt (g/L); $1.0\Omega \cdot \text{cm}$ - $100.0 \text{ M}\Omega \cdot \text{cm}$; 0.0 to 400.0% NaCl
 Logging: 400 samples; lot logging: 5, 10, 30 sec, 1, 2, 5, 10, 15, 30, 60, 120, 180 min
 Battery Type/Life: 1.5V AA batteries (4) / 200 hours of continuous use.

HI763133

Platinum, four-ring conductivity/TDS probe with internal temperature sensor, quick DIN connector, and 1 m (3.3') cable

Measurement Modes: EC, TDS, resistivity, salinity, and USP <645>



Dissolved Oxygen and BOD Meter - HI98193

Range: 0.00 to 50.00 ppm (mg/L); 0.0 to 600.0% saturation; 450 to 850 mmHg
 Logging: up to 400 samples
 Measurement Modes: direct DO; BOD (biochemical oxygen demand); OUR (oxygen uptake rate); SOUR (specific oxygen uptake rate)
 Battery Type/Life: 1.5V AA batteries (4) / 200 hours of continuous use.

HI764073

Polarographic DO probe with protective sleeve, internal temperature sensor, quick DIN connector, and 4 m (13') cable

Optional Electrodes for HI98190 and HI98191 pH/ORP/ISE.

pH Electrodes



HI11313 • HI1131B

Single ceramic, double junction, glass body, refillable pH electrode
 Recommended for laboratory and general purpose



HI12303 • HI1230B

Single ceramic, double junction, gel filled, PEI body, pH electrode
 Recommended for field applications



HI10533 • HI1053B

Triple ceramic, double junction, glass body, refillable pH electrode with conical tip and temperature sensor
 Recommended for fats, creams, soil and low conductivity samples



ORP Probe

HI36183 • HI3131B

Single ceramic, double junction, glass body, refillable ORP probe
 Recommended for laboratory and general purpose



HI11103

Single ceramic, single junction, gel filled, glass body, pH electrode with temperature sensor
 Recommended for laboratory and general purpose



FC2323 • FC230B

Open viscolene reference electrolyte, double junction, PVDF body pH electrode with conical tip
 Recommended for meat applications with use of optional FC09B 20 mm (0.8") or FC099 35 mm (1.4") stainless steel blade



FC2023 • FC200B

Open viscolene reference electrolyte, double junction, PVDF body pH electrode with conical tip
 Recommended for dairy analysis including cheese, yogurt, and other semi-solids



HI2963

Single junction, titanium body pH electrode with spheric tip
 Recommended for field applications

The HI98190 features a quick DIN connector and uses electrodes that end in 3, these electrodes have a built-in temperature sensor. The HI98191 features a BNC connector and uses electrodes that end in B.