

Water Quality Meters

In-Situ SMARTROLL™ Multiparameter Handheld

Hold the future of water quality monitoring in your hand. The SMARTROLL Multiparameter (MP) Handheld combines industry-leading water quality sensors with revolutionary smartphone mobility. The intuitive iSitu® Application eliminates training time and runs on your iPhone®, iPod touch®, or iPad® device.

Simply connect the SMARTROLL MP Probe to a battery pack, launch the iSitu App, and start reading results. No warm-up time or tedious setup. The iSitu App guides you through spot checks, calibrations, and data management.



FEATURES

The the SMARTROLL MP simultaneously measures 14 parameters:

- **Chemical parameters:** Dissolved oxygen (optical sensor), conductivity (actual and specific), pH, ORP, salinity, total dissolved solids, resistivity, and density
- **Physical parameters:** Air and water temperature, barometric pressure, water level, and water pressure
- **Use the SMARTROLL MP System anywhere:** Reduce field equipment requirements for routine monitoring and low-flow sampling events.
- **Instantly collaborate with colleagues:** Use a wired or wireless connection to send real-time snapshots of data.
- **Streamline data management:** Consolidate all site information on your smartphone and tag data with site photos and GPS coordinates. Log data to your smartphone and download results in a standard file format.
- **Get accurate results:** Internal logic automatically compensates measurements for barometric pressure and salinity.
- **Eliminate errors:** Smart sensors automatically recognize calibration solutions, store calibration data in the sensors, and perform diagnostics. Start monitoring immediately. Sensors are pre-calibrated at the factory with NIST®-traceable standards (where applicable).
- **Reduce maintenance:** Robust sensors stand up to field use and calibrations can last for months.

APPLICATIONS

- Ambient water quality spot checking
- Low-flow groundwater sampling
- Mine water monitoring
- Stormwater management
- Vertical profiling

CALL GEOTECH TODAY (800) 833-7958

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SPECIFICATIONS

General

Operating Temp.	-5° to 50°C (23 to 122°F)
Storage Temp.	-40° to 65°C (-40° to 149°F)
Dimensions	4.7 cm (1.85 in.) OD x 26.9 cm (10.6 in.) with restrictor installed (does not include connector).
Weight	694 g (1.53 lbs.)
Wetted Materials	PVC, 316 stainless steel, titanium, Acetal, Viton®, PC/PMMA
Environmental Rating	Probe: IP68 with all sensors and cable attached. IP67 with sensors removed and cable detached. Battery Pack: IP67 with battery cover closed.
Reading Rate	1 reading every 10 seconds; data logged to a mobile device.
Power	6 VDC from battery pack
Interface	iPhone® 4S, iPod touch® 5, or iPad® 3, 4, mini or later; iOS 6.0 or later. BLE radio. Purchase the iSitu® App at the Apple® App Store.
Cable	Black polyurethane. Standard lengths available: 1.5 m, 4.6 m, 9.1 m, 30.5 m (5 ft., 15 ft., 30 ft., 100 ft.)

Standard Sensors

	Accuracy	Range	Resolution	Units of Measure
Level, Depth, Pressure	Typical ±0.1% FS @ 15°C; ±0.3% FS max. from 0° to 50°C	76 m (250 ft.); Absolute (non-vented)	±0.01% FS or better	Pressure: psi, kPa, bar, mbar, mmHg, inHg Level: mm, cm, m, in., ft.
Barometric Pressure (battery pack)	±3 mbar max.	300 to 1100 mbar	0.01 mbar	psi, kPa, bar, mbar, mmHg, inHg, Torr, atm
Conductivity	Typical ±0.5% + 1 µS/cm; ±1% max.	5 to 100,000 µS/cm	0.1 µS/cm	Actual Conductivity (µS/cm, mS/cm) Specific Conductivity (µS/cm, mS/cm) Salinity (PSU) Total Dissolved Solids (ppt, ppm) Resistivity (Ohms-cm) Density (g/cm³)
Dissolved Oxygen				
Optical RDO® Fast Cap	±0.1 mg/L ±0.2 mg/L ±10% of reading	0 to 8 mg/L 8 to 20 mg/L 20 to 50 mg/L Full operating range: 0 to 50 mg/L	0.01 mg/L	mg/L, % saturation, ppm
Interferences: Alcohols >5%; hydrogen peroxide >3%; sodium hypochlorite (commercial bleach) >3%; gaseous sulfur dioxide; gaseous chlorine. Organic solvents and certain petroleum-based hydrocarbons may swell the sensing element and destroy it. Examples include, but are not limited to, acetone, chloroform, methylene chloride, and BTEX compounds.				
ORP	±5.0 mV	±1400 mV	0.1 mV	mV
pH	±0.1 pH unit (0 to 12 pH)	0 to 14 pH units	0.01 pH unit	pH units
Temp., Air (battery pack)	±2°C	-20° to 70°C (-4° to 158°F)	0.1°C	Celsius, Fahrenheit
Temp., Sample (Probe)	±0.1°C	-5° to 50°C (23° to 122°F)	0.01°C or better	Celsius, Fahrenheit
Warranty	2-year warranty on probe. 1-year warranty on battery pack. 1-year warranty on cable.			



View results instantly on your smartphone.



Recognize sites quickly and simplify data management with photo and GPS tags.



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Rugged Sensors stand up to demanding conditions. Sensors automatically recognize calibration solutions and calibrations are stored in the sensors. The optical Rugged Dissolved Oxygen (RDO®) Sensor uses In-Situ Inc.'s EPA-approved methodology.



Low-Flow Sampling System simplifies field setups and delivers realtime data to your clients.

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