



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. 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

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.

Be Mobile

- **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.

Be Smart

- **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.
- **Get accurate results:** Internal logic automatically compensates measurements for barometric pressure and salinity.

Be In-Situ

- Receive **free**, 24/7 technical support and mobile help in the field.
- Order supplies from the In-Situ e-store with your smartphone.
- Get guaranteed 7-day service for maintenance (U.S.A. only).

Applications

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

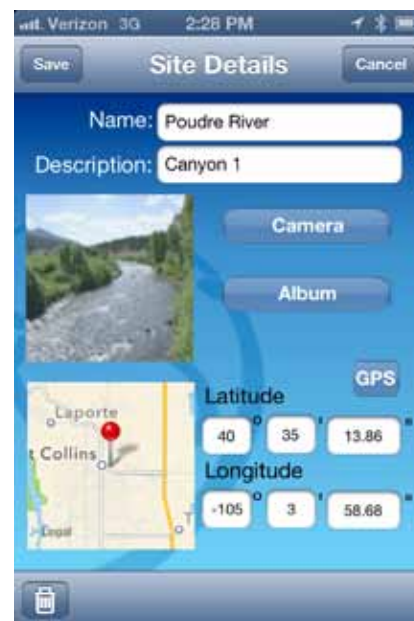
SMARTROLL™ Multiparameter Handheld

Specifications

General		SMARTROLL Multiparameter Handheld Instrument			
Operating temp.	-5 to 50° C (23 to 122° F)				
Storage temp.	-40 to 65° C (-40 to 149° F)				
Dimensions & weight	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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Low-Flow Sampling System (left) simplifies field setups and delivers real-time data to your clients.

Rugged Sensors (right) 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.



Call to purchase or rent—www.in-situ.com

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1-800-446-7488 (toll-free in U.S.A. and Canada)

1-970-498-1500 (U.S.A. and international)

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