



# IN-SITU SMARTROLL™

Multiparameter Handheld



## SMARTROLL™ Multiparameter Handheld

Hold the future of dissolved oxygen monitoring in your hand. The SMARTROLL Multiparameter (MP) Handheld combines industry-leading water quality sensors with revolutionary smartphone mobility. The intuitive VuSitu™ Mobile App eliminates training time and runs on your Android™ device, and the iSitu® Mobile App on your iOS™ device.

The easy-to-use SMARTROLL Multiparameter (MP) Handheld measures 14 parameters:

- **Chemical parameters:** Dissolved oxygen (optical sensor), actual conductivity, specific conductivity, 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 or power pack, launch the mobile app and start reading results. No warm-up time or tedious setup. The mobile 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 from low-flow sampling events to aquaculture spot checks.
- **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 .csv file format.

### Be Smart

- **Eliminate errors:** Smart sensors automatically recognize calibration solutions, store calibration data in the sensors, and perform diagnostics. 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:** Smart sensor technology including automatic salinity and barometric pressure compensation.

### Be In-Situ

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

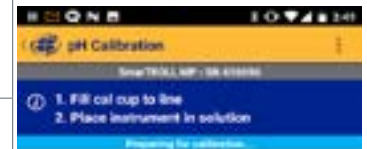
### Applications:

- Ambient water quality spot checking
- Aquaculture
- Vertical profiling
- Low-flow groundwater sampling

General		SMARTROLL Multiparameter Handheld Instrument		
<b>Operating temp.</b>	-5 to 50° C (23 to 122° F)			
<b>Storage temp.</b>	-40 to 65° C (-40 to 149° F)			
<b>Dimensions and weight</b>	<b>Dimensions:</b> 4.7 cm (1.85 in.) OD x 26.9 cm (10.6 in.) with restrictor installed (does not include connector). <b>Weight:</b> 694 g (1.53 lbs)			
<b>Wetted materials</b>	PVC, 316 stainless steel, titanium, Acetal, Viton®, PC/PMMA			
<b>Environmental rating</b>	<b>Probe:</b> IP68 with all sensors and cable attached. IP67 with sensors removed and cable detached. <b>Battery pack:</b> IP67 with battery cover closed. <b>Power Pack:</b> IP67			
<b>Reading rate</b>	1 reading every 10 seconds; data logged to a mobile device.			
<b>Power</b>	6 VDC from battery pack for iOS; 5 VDC from power pack for Android™			
<b>Interface</b>	<b>iOS:</b> iPhone® 4S, iPod touch® 5, or iPad® 3, 4, mini or later; iOS™ 6.0 or later. BLE radio. Download the iSitu® App at the Apple® App Store. Used with iOS battery pack. <b>Android:</b> Android™ platform 4.4 (requires Bluetooth® 2.0). Download the VuSitu™ App on the Google Play™ store. Used with Android™ PowerPack.			
<b>Cable</b>	Black polyurethane. Standard lengths available: 1.5 m, 4.6 m, 9.1 m, 30.5m (5 ft, 15 ft, 30 ft, 100ft)			
Standard Sensors	Accuracy	Range	Resolution	Units of Measure
<b>Level, Depth, Pressure</b>	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
<b>Conductivity</b>	Typical ±0.5% + 1 µS/cm; ±1% max.	0 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)
<b>Dissolved oxygen Optical RDO® Fast Cap</b>	±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
<b>ORP</b>	±5.0 mV	±1400 mV	0.1 mV	mV
<b>pH</b>	±0.1 pH unit (0 to 12 pH)	0 to 14 pH units	0.01 pH unit	pH units
<b>Temp., sample (probe)</b>	±0.1° C	-5 to 50° C (23 to 122° F)	0.01° C or better	Celsius, Fahrenheit
<b>Barometric pressure (battery pack/power pack)</b>	±3 mbar max.	300 to 1100 mbar	0.01 mbar	psi, kPa, bar, mbar, mmHg, inHg, Torr, atm
<b>Temp., air (battery pack/power pack)</b>	±2° C	-20 to 70° C (-4 to 158° F)	0.1° C	Celsius, Fahrenheit
<b>Warranty</b>	2-year warranty on probe. 1-year warranty on battery pack/power pack. 1-year warranty on cable.			



View results instantly from your iOS™ or Android™ device.



Calibrate your instrument while connected to the app with a guided, simple workflow.



**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 EPA-approved methodology.



Specifications subject to change without notice. Android™ is a trademark of Google Inc. Apple, iPhone, iPod touch, and iPad are trademarks of Apple Inc. registered in U.S. and other countries. NIST is a registered trademark of the National Institute of Standards and Technology. Viton is a registered trademark of DuPont Performance Elastomers L.L.C.