

Applications

- Lake, stream and wetland monitoring
- Stormwater management
- Coastal deployments – bays and estuaries
- Dam monitoring
- Low-flow groundwater sampling
- Remediation and mine water monitoring



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 SMARTROLL Multiparameter (MP) Handheld simply 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.

Standard Sensors	Accuracy	Range	Resolution	Units of Measure
Level, Depth, Pressure	Typical $\pm 0.1\%$ FS @ 15° C; $\pm 0.3\%$ FS max. from 0 to 50° C	76 m (250 ft); absolute (non-vented)	$\pm 0.01\%$ FS or better	Pressure: psi, kPa, bar, mbar, mmHg, inHg Level: mm, cm, m, in., ft
Conductivity	Typical $\pm 0.5\%$ + 1 $\mu\text{S}/\text{cm}$; $\pm 1\%$ max.	5 to 100,000 $\mu\text{S}/\text{cm}$	0.1 $\mu\text{S}/\text{cm}$	Actual conductivity ($\mu\text{S}/\text{cm}$, mS/cm) Specific conductivity ($\mu\text{S}/\text{cm}$, mS/cm) Salinity (PSU) Total dissolved solids (ppt, ppm) Resistivity (Ohms-cm) Density (g/cm ³)
Dissolved oxygen Optical RDO® Fast Cap	± 0.1 mg/L ± 0.2 mg/L $\pm 10\%$ 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
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., sample (probe)	$\pm 0.1^\circ\text{C}$	-5 to 50° C (23 to 122° F)	0.01° C or better	Celsius, Fahrenheit
Barometric pressure (battery pack/power pack) Temp., air (battery pack/power pack)	± 3 mbar max. $\pm 2^\circ\text{C}$	300 to 1100 mbar -20 to 70° C (-4 to 158° F)	0.01 mbar 0.1° C	psi, kPa, bar, mbar, mmHg, inHg, Torr, atm Celsius, Fahrenheit



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Warranty

2-year warranty on probe. 1-year warranty on battery pack/power pack. 1-year warranty on cable.

Product Launch Promotion:

10% Trade-in Discount for YSI, HACH, OxyGuard Sensors