

Water Quality Meters

In-Situ SMARTROLL™ RDO® Handheld

Hold the future of dissolved oxygen monitoring in your hand. The SMARTROLL Rugged Dissolved Oxygen (RDO) Handheld combines the industry-leading optical DO sensor 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 RDO 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 RDO Handheld simultaneously measures four parameters:

- Dissolved oxygen with EPA-approved RDO methods
- Barometric pressure
- Air temperature
- Water temperature
- Use the SMARTROLL RDO anywhere – Reduce field equipment requirements for routine monitoring.
- 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.

- **Eliminate errors** – The RDO Sensor automatically recognizes calibration solutions, stores calibration data in the sensor, and performs diagnostics. Start monitoring immediately – the sensor is pre-calibrated at the factory.

- **Reduce maintenance** – The robust RDO Sensor stands up to field use and calibrations last for months.
- **Get accurate DO results** – Internal logic automatically compensates for barometric pressure and allows for manual salinity corrections.

APPLICATIONS

- Ambient water quality spot checks in freshwater and saltwater
- Dam water sampling
- Effluent monitoring
- Stormwater management

CALL GEOTECH TODAY (800) 833-7958

Geotech Environmental Equipment, Inc.

2650 East 40th Avenue • Denver, Colorado 80205

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SPECIFICATIONS

General

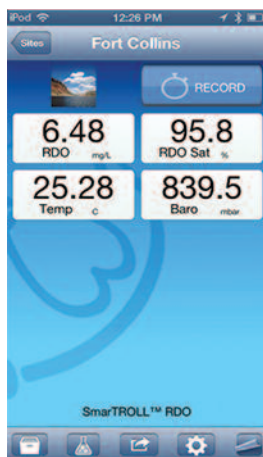
Operating Temp.	-5° to 50°C (23 to 122°F)
Storage Temp.	-40° to 65°C (-40° to 149°F)
Dimensions	2.8 cm (1.1 in.) OD x 16.8 cm (6.6 in.) with restrictor (does not include connector).
Weight	255 g (0.56 lbs.)
Wetted Materials	316 stainless steel, titanium, Acetal, Viton®, PC/PMMA
Environmental Rating	Probe: 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 smartphone.
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 (5 ft., 15 ft., 30 ft.)

Standard Sensors

	Accuracy	Range	Resolution	Units of Measure	Response Time	Method
Dissolved Oxygen RDO® Fast Cap (optical sensor)	±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	T90: <30 sec. T95: <45 sec.	EPA-approved In-Situ Methods 1002-8-2009 1003-8-2009 1004-8-2009
Temp., Sample (Probe)	±0.1°C	-5° to 50°C (23° to 122°F)	0.01°C or better	Celsius, Fahrenheit	<30 sec.	EPA 170.1
Barometric Pressure (battery pack)	±3 mbar max.	300 to 1100 mbar	0.01 mbar	psi, kPa, bar, mbar, mmHg, inHg, Torr, atm	Instantaneous in thermal equilibrium	Piezoresistive pressure sensor
Temp., Air (battery pack)	±2°C	-20° to 70°C (-4° to 158°F)	0.1°C	Celsius, Fahrenheit	<30 sec.	EPA 170.1
Warranty	2-year warranty on probe. 1-year warranty on battery pack. 1-year warranty on cable.					



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View results instantly on your smartphone.



Recognize sites with photo and GPS tags.



Get accurate results and long-lasting calibrations.



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