

Water Quality Meters

In-Situ Troll 9000

Introducing the new Multi-Parameter (MP) TROLL 9000 for in-situ water quality monitoring. Capable of monitoring up to 9 sensors simultaneously, the MP TROLL 9000 is the ultimate tool for long or short term water quality profiling applications and unattended, long-term deployments.

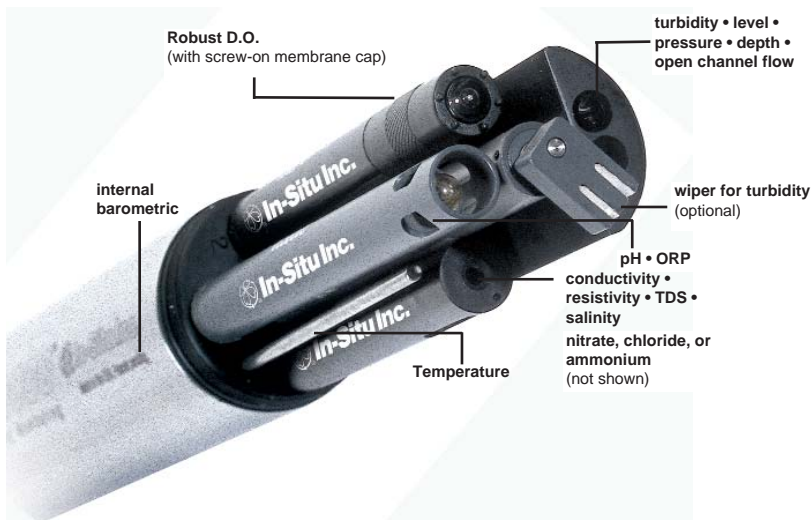
FEATURES

- **Pre-Calibrated and Ready to Use** - All TROLL 9000s ship factory calibrated and are ready to use right out of the box.
- **Smart Sensors** - New Smart Sensor technology remembers calibration so you don't have to.
- **ROBUST D.O. - With Sure-Tension™ Membranes** - or **Rugged D.O. (RDO)** Requires no membrane, no stirring, and no cleaning
- **SINGLE "QUICK-CAL" SOLUTION** - For the ultimate in convenience try our "Quick-Cal" solutions for simple, painless calibrations. Simply place the TROLL 9000 in the solution and press CALIBRATE—it's that easy!
- **The Most Sensors in a 1.75" (45mm) O.D** - Probe Sensor options include: D.O., conductivity, pH, ORP, temperature, level, barometric pressure, nitrate, ammonium and chloride.
- **Troll 9000E (Extended Deployment)** - for long term deployments up to 7 months on internal power!
- **Networking and Telemetry options available**



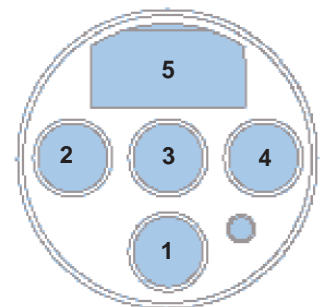
SENSOR OPTIONS

Smart Sensor Ports allow you to create custom sensor configurations by adding the sensors of your choice to the ports you want.



1. pH/ORP or ISE*
2. D.O or ISE
3. ISE or optional wiper for Turbidity
4. Conductivity only
5. Fixed port - Depth / Pressure and/or Turbidity Temperature and barometric pressure are standard

*ISE = pH, ORP, pH/ORP, Nitrate, Chloride, Ammonium



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TROLL 9000 Sensor Specifications Available water quality sensor ports		VERSIONS:	Profiler	Profiler XP	Professional	Professional Xp	LTS
			4	4	4	4	1
Dissolved Oxygen*	Range	0 to 200%	●	●	●	●	●
	Resolution	0.1%	●	●	●	●	●
	Accuracy	±2%	●	●	●	●	●
Dissolved Oxygen*	Range	0 to 20 mg/L	●	●	●	●	●
	Resolution	0.01 mg/L	●	●	●	●	●
	Accuracy	±2% mg/L	●	●	●	●	●
Conductivity	Range	0.01 to 200 mS/cm (call for information on high range options)	●	●	●	●	●
	Resolution	0.001 to 0.1 mS/cm (range dependent)	●	●	●	●	●
	Accuracy	±0.5 - 8% of reading + 0.002 mS/cm	●	●	●	●	●
		Reports absolute conductivity, specific conductance at 25°C, resistivity, and total dissolved solids (TDS)					
Temperature	Range	-5 to 50°C	●	●	●	●	●
	Resolution	0.01	●	●	●	●	●
	Accuracy	±0.1°C	●	●	●	●	●
pH	Range	0 to 14 units	●	●	●	●	●
	Resolution	0.01 units	●	●	●	●	●
	Accuracy	±0.09 units	●	●	●	●	●
ORP	Range	-1400 to 1400 mV	●	●	●	●	●
	Resolution	0.1 mV	●	●	●	●	●
	Accuracy	±4 mV	●	●	●	●	●
Salinity	Range	0 to 240 PSU	●	●	●	●	●
	Resolution	0.01 PSU	●	●	●	●	●
	Accuracy	Not applicable	●	●	●	●	●
Depth	Range	11m (35ft, 15psi), 21m (69ft, 30psi), 70m (231ft, 100psi), 211m (692ft, 300psi)	●	●	●	●	●
	Resolution	1mm	●	●	●	●	●
	Accuracy	±0.05% FS	●	●	●	●	●
Barometric Pressure	Range	0 to 16.5 psia (0 to 854 mmHg)	●	●	●	●	●
	Resolution	0.00531% FS (0.04 mmHg)	●	●	●	●	●
	Accuracy	±0.3% FS (±2.54 mmHg)	●	●	●	●	●
Nitrate	Range	0.14 to 14000 ppm N	●	●	●	●	●
	Resolution	Range Dependent	●	●	●	●	●
	Accuracy	10% of reading or 1 ppm N, whichever is greater	●	●	●	●	●
Ammonium, Ammonia	Range	0.14 to 14000 ppm N	●	●	●	●	●
	Resolution	Range Dependent	●	●	●	●	●
	Accuracy	10% of reading or 2 ppm N, whichever is greater	●	●	●	●	●
Chloride	Range	0.35 to 35000 ppm Cl	●	●	●	●	●
	Resolution	Range Dependent	●	●	●	●	●
	Accuracy	15% of reading or 1 ppm Cl, whichever is greater	●	●	●	●	●
Turbidity	Range	0 to 2000 NTU	●	●	●	●	●
	Resolution	0.1 NTU	●	●	●	●	●
	Accuracy	5% of reading or 2 NTU, whichever is greater	●	●	●	●	●
Hardware Specifications							
Data Logging	16 programmable tests (defined, scheduled to run or stored)			●	●	●	
	Logging modes: Linear, Linear Average, Logarithmic, Event			●	●	●	
Memory	4 MB (over 1-million data points)			●	●	●	
Internal Power	2 internal user-replaceable D batteries (4 with 9000E)	●	●	●	●	●	
SDI-12 communications	(optional with SDI-12 adapter)	●	●	●	●	●	
Dimensions	45mm (1.75 in) OD, 47.3cm (18.6 in) long or 602mm (23.7 in) long on 9000E						
Weight	1.27 Kg (2.8 lbs) / 2.7 kg (5.95 lbs) for 9000E						
Wetted Materials	316L stainless steel, Delrin®, Viton®, nylon, PVC, FEP* or polyurethane (cable)						

* Based upon Robust Dissolved Oxygen Sensor

CALL GEOTECH TODAY (800) 833-7958

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