



REDUCE MONITORING COSTS AND GET BETTER DATA FASTER WITH THE AQUA TROLL 500, A COST-EFFECTIVE MULTIPROBE IDEAL FOR BOTH SPOT CHECKS AND LONG-TERM MONITORING. THIS WIRELESS-ENABLED INSTRUMENT STREAMLINES DATA COLLECTION, SAVING HOURS IN THE FIELD WHILE DELIVERING MORE RELIABLE DATA.

E. In-Situ

The customizable sonde comes with sensors that include:

- RDO Optical Dissolved Oxygen
- Actual and specific conductivity
- pH/ORP
- Salinity
- Total dissolved solids (TDS)
- Resistivity
- Density
- Turbidity
- Temperature and pressure
- Ion Selective Electrodes

Connect the Aqua TROLL 500 to a Wireless TROLL Com and use it as a handheld, or connect the probe to control systems or telemetry for remote monitoring.

BE IN-SITU

- Get free 24/7 tech support and application guidance in the field
- Guaranteed 7-day maintenance turnaround
- Top rated for customer service for over 40 years

BE SMART

- Lower cost of ownership: Rugged probe with wet-mateable sensors replaces single parameter instruments and requires minimal maintenance and calibration.
- Data you can count on: The corrosion-resistant probe withstands harsh environments, highly stable sensors with simple calibration. LCD readout of sensor health and connectivity gives you confidence in your
- Simple setup: Connect easily with telemetry, PLC/SCADA or dataloggers, or download real-time data wirelessly via mobile app for spot checks and profiling. The app walks you through SOPs, just click to download and share data-no training or post-processing required.

BE MOBILE

- Save time in the field: Auto-configuration and fast sensor response speed up sampling, while automated data collection eliminates the need to record data in field logs.
- Use the Aqua TROLL 500 anywhere: Flexible multiprobe works for spot checks and low-flow sampling as well as long-term deployments. Anti-fouling wiper and titanium construction provide reliability even in challenging conditions.
- Take your data with you: VuSitu Mobile App records data directly from the probe to your mobile device when using the instrument as a handheld. For long-term monitoring, our HydroVu platform provides 24/7 online data access.

Applications:

- SURFACE WATER SPOT SAMPLING AND PROFILING
- REMOTE MONITORING VIA TELEMETRY
- LONG-TERM DRINKING WATER, WASTEWATER OR STORMWATER MONITORING
- AQUACULTURE
- IDEAL FOR WIRED OR WIRELESS WATER QUALITY **NETWORKS**





Aqua TROLL® 500 Multiparameter Sonde

GENERAL		Aqua TROLL® 500 Multiparameter Sonde							
OPERATING TEMPERATURE (NON-FREEZING)		-5 to 50°C (23 to 122°F) ISE: Ammonium and Nitrate 0 - 40°C, Chloride 0 - 50°C					-36 VDC; Required for normal operation leep: < 0.2 mA typical; Measurement: 40 mA typical, 75 mA Max		
		Components Without Fluid -40°C to + 65°C (Non Freezing Water) pH/ORP Sensors -5°C to +65°C Ammonium/Nitrate: 0 - 40°C Chloride: 0 - 50°C			INTERNAL MEMORY AND DATA LOGGING		Use external datalogger or telemetry		
DIMENSIONS		Length: 46 cm (18.145") (includes connector). With bail: 59 cm (23.25") Diameter: 4.7 cm (1.860")			READING RATES 1		1 reading every 2 seconds		
		0.978 kg / 2.15 lbs. (includes instrument, sensors, restrictor and bumpers)			COMMUNICATION DEVICE V		Wireless TROLL Com		
WETTED MATERIALS (SONDE AND SENSORS)		PC, PC alloy, Delrin, Santoprene, Inconel, Viton, Titanium, Platinum, Ceramic, Nylon, PVC, Graphite			CABLE OPTIONS V		Vented or non-vented polyurethane or vented Tefzel®		
SENSOR HEX SCREW DRIVER		0.050, 1.3 mm	050, 1.3 mm			PLAY	Integrated display shows status of sonde, sensor ports, power voltage and connectivity, enable/disable BT.		
ENVIRONMENTAL RATING		IP68 with all sensors and cable attached IP67 without the sensors or cable attached					Android: VuSitu through Google Play Windows: Win-Situ 5 Data Services: HydroVu		
MAX PRESSURE RATING		Up to 150 PSI Ammonium/Nitrate up to 30PSI			INTERFACE		Android 4.4, requires BlueTooth 2.0		
OUTPUT OPTIONS		RS-485/MODBUS, SDI-12, Bluetooth			CERTIFICATIONS		CE, FCC, WEEE, RoHS Compliant		
STANDARD SENSOR	ACCU	IRACY	RANGE	RESOLUTI PRECISIO		RESPONSETIME	UNITS OF MEASURE	METHOD	
TEMPERATURE ²	+/- 0.1°C		-5 to 50°C (23 to 122°F)	0.01°C		T63<2s, T90<15s, T95<30s	Celsius or Fahrenheit	EPA 170.1	
BAROMETRIC PRESSURE (VENTED MODELS ONLY)	+/- 1.0 mBars		300 - 1100 mBars	0.1 mBar		T63<1s, T90<1s, T95<1s	Pressure: psi, kPa, bar, mbar, inHg, mmHg;	Silicon strain gauge	
pH ³	±0.1 pH unit or better		0-14 pH	0.01 pH		T63<3s, T90<15s, T95<30s	pH, mV	Std. Methods 4500-H+, EPA 150.2	
ORP ⁴	+/- 5 mV		±1400 mV	0.1 mV		T63<3s, T90<15s, T95<30s	mV	Std. Methods 2580	
CONDUCTIVITYS -TDS (TOTAL DISSOLVED SOLIDS) -SALINITY	+/-0.5% of reading plus 1 μ S/cm from 0 to 100,000 μ S/cm; +/-1.0% of reading from 100,000 to 200,000 μ S		0 to 350,000 µS/cm 0-350 ppt 0-350 PSU	0.1 µS/cm 0.1 ppt 0.1 PSU		T63<1s, T90<3s, T95<5s	Actual conductivity (µS/cm, mS/cm); Specific conductivity (µS/cm, mS/cm); Salinity (PSU, ppt); Total dissolved solids (ppt, ppm); Resistivity (Ohms-cm); Density (g/cm²)	Std. Methods 2510, EPA 120.1 Std. Methods 2520A	
RUGGED DISSOLVED OXYGEN (RDO) WITH RDO-X OR FAST CAP ⁶	±0.1mg/L +/-0.2 mg/L +/-10% of reading		0 to 8 mg/L 8 to 20 mg/L 20 to 50 mg/L	0.01 mg/L		RDO-X: T63<15s, T90<45s, T95<60s Fast Cap: T63<1s, T90<15s, T95<30s	mg/L, %saturation, ppm	EPA-approved In-Situ Methods: 1002-8-2009, 1003-8-2009, 1004-8-2009	
TURBIDITY - TSS (TOTAL SUSPENDED SOLIDS) ⁷	+/-2% of reading or +/-2 NTU, FNU, w.i.g. ¹²		0 - 4,000 NTU 0-1,500 mg/L	0.01 NTU (0-1,000); 0.1 NTU (1,000-4,000) 0.1 mg/L		T63<1s, T90<1s, T95<1s	NTU, FNU ppt, mg/L	ISO 7027	
AMMONIUM (NH ₄ ⁺ - N) ^{8,9} RATED TO 25 m DEPTH -Unionized Ammonia, Total Ammonia (requires salinity, temperature and pH)	$\pm 10\%$ or ± 2 mg/L, w.i.g. ¹²		0-10,000 mg/L as N	0.01 mg/L		T63<1s, T90<10s, T95<30s	mg/L, ppm, mV		
NITRATE (NO ₃ · - N) ⁸ RATED TO 25 m DEPTH	$\pm 10\%$ or ± 2 mg/L, w.i.g. ¹²		0-40,000 mg/L as N	0.01 mg/L		T63<1s, T90<1s, T95<1s	mg/L, ppm, mV	Std. Methods 4500-NO3 D	
CHLORIDE (CI [.] -) ⁸	±10%	or ± 2 mg/L, w.i.g. ¹²	0-150,000 mg/L	0.01 mg/L		T63<1s, T90<10s, T95<30s	mg/L, ppm, mV	Std. Methods 4500-Cl- D	
PRESSURE (OPTIONAL) ¹⁰)10 ±0.1% full scale (FS) Non-Vented or Vented 9.0 m (30 ft.) - Burst: 27 m (90 ft.) 30 m (100 ft.) - Burst: 40 m (130 ft.) 76 m (250 ft.) - Burst: 107 m (350 ft.) 100 m (325 ft.) - Burst: 200 m (650 ft.)		0.01% full s	scale	T63<1s, T90<1s, T95<1s	Pressure: psi, kPa, bar, mbar, inHg, mmHg; Level: in, ft., mm, cm, m; Level: in, ft., mm, cm, m	Piezoresistive; Ceramic		
WARRANTY ¹¹		2 year - Sonde, RDO and sensor cap, temperature/conductivity, temperature only, turbidity (excluding pH/ORP); 1 year - pH/ORP, chloride ISE, accessories 90 Days - Nitrate and Ammonium ISE sensors; See warranty policy (www.in-situ.com/warranty)							

Authorised distributor

In Australia:

For customer service, call 1300-735-292 To fax an order, use 1800-067-639 To email an order, ordersau@thermofisher.com

In New Zealand:

For customer service, call 0800-933-966 To fax an order, use 0800-329-246 To email an order, ordersnz@thermofisher.com

