



## Aqua TROLL® 600 Multiparameter Sonde

**THE AQUA TROLL® 600 IS A FULLY CUSTOMIZABLE MULTIPARAMETER SONDE WITH INTERCHANGEABLE WATER QUALITY SENSORS AND A MOBILE APP INTERFACE THAT ENABLES SIMPLIFIED CALIBRATION, EASY SET UP AND AUTOMATIC DATA UPLOADS TO THE CLOUD.**

The Aqua TROLL® 600 is a five-port multiparameter sonde, including four sensor ports and a wiper port. There is an option to have an antifouling wiper to ensure data accuracy.

The Aqua TROLL® is optimized for long-term monitoring of water quality in the harshest environments. Monitoring experts appreciate low energy use that lengthens maintenance cycles, and an integrated LCD for checking deployment readiness, battery life and sensor status. Use as a standalone data logger, or protect your data in case of unplanned telemetry interruptions. All features are delivered through a simplified user experience that makes this advanced technology accessible to everyone.

### SIMPLIFIED USER EXPERIENCE

All Aqua TROLL® products use our industry-leading ecosystem, which includes:

- VuSitu mobile app with live data and in-app guidance through setup and calibration
- HydroVu software for anywhere, anytime data visibility of your data
- Data files that sync automatically to HydroVu for secure access on any device
- Sensors that can be used across multiple products, saving time and expense
- Common cables, communication device and VuLink telemetry

### EXTENDED DEPLOYMENT DESIGN

The Aqua TROLL® 600 was designed with features that make it easier to extend deployments and reduce site-visit maintenance time.

- Interlocking sensors reduce surfaces for fouling
- Dual-sided antifouling wiper cleans sensors and restrictor simultaneously
- Optional copper restrictor

### BUILT-IN ERROR PREVENTION

Prevent the most common damage or loss with:

- Spring-loaded screws that stay in place
- Smart sensors that fit in any port
- Wet-mate connectors that prevent water damage
- Anti-roll bumpers to keep equipment stationary
- Slip-clutch wiper that prevents motor damage
- Titanium Twist-Lock connector and Kevlar-reinforced cable

### WIDE RANGE OF PARAMETERS AVAILABLE

Available sensors include Rugged Dissolved Oxygen (RDO®), temperature, conductivity, pH, ORP, turbidity, chlorophyll a, phycocyanin (BGA-PC), phycoerythrin (BGA-PE), fluorescent dissolved organic matter (FDOM), crude oil, Rhodamine WT, ammonium, chloride, and nitrate. Enable additional derived parameters, or calculate custom parameters from HydroVu. See the Aqua TROLL Sensors spec sheet for specifications and features.

### LOWER CALIBRATION COSTS

The Aqua TROLL® 600 uses less than 50 ml of solution for most calibrations, reducing calibration cost by 5x over traditional methods and saving thousands of dollars in calibration solution per year. In-app instructions ensure consistency and accuracy with every calibration.



GENERAL		AQUA TROLL 600 MULTIPARAMETER SONDE	
<b>OPERATING TEMPERATURE (NON-FREEZING)</b>	-5 to 50° C (23 to 122° F) ISE: Ammonium & Nitrate 0 to 40° C (32 to 104° F); Chloride 0 to 50° C (32 to 122° F)		
<b>STORAGE TEMPERATURE</b>	Components w/o fluid: -40° C to 65° C (-40° to 149° F) (non-freezing water); pH/ORP: -5° C to 65° C (-23° to 149° F); Ammonium/Nitrate: 0 to 40° C (32° to 104° F); Chloride: 0 to 50° C (32° to 122° F)		
<b>DIMENSIONS</b>	Diameter: 4.7 cm (1.85 in) OD Length: 60.2 cm (23.7 in) (inc. connector) Length With bail: 72.9 cm (28.7 in)		
<b>WETTED MATERIALS</b>	Polyphenylsulfone, Polycarbonate, Acetal, EPDM/Polypropylene TPV, FKM Fluoroelastomer, Titanium, Fluorocarbon Coating, Ceramic, Inconel, Acrylic Adhesive Film, Nylon, Polyurethane Adhesive, Graphite, PC/PMMA Blend, Acrylic, Sapphire, PVC, Platinum, Glass, Proprietary RDO Sensing Formulation		
<b>WEIGHT<sup>1</sup></b>	1.45 kg / 3.2 lbs (includes all sensors, batteries, and bail)		
<b>MAX PRESSURE RATING</b>	Up to 350 PSI		
<b>COMMUNICATION OPTIONS</b>	RS-485/MODBUS, SDI-12, Bluetooth		
<b>READING RATES</b>	1 reading every 2 seconds		
<b>DATA LOGGING</b>	Store up to 50 log files		
<b>LOGGING RATE</b>	1 minute to 99 hours		
<b>ENVIRONMENTAL RATING</b>	IP68 with all sensors and cable attached IP67 without the sensors or cable attached		
<b>INTERNAL MEMORY<sup>2</sup></b>	16 MB		
<b>MICRO SD CARD<sup>3</sup></b>	8+ GB micro SD card included, user replaceable		
<b>INTERNAL POWER</b>	2 user-replaceable Alkaline D batteries		
<b>BATTERY LIFE<sup>4</sup></b>	> 6 months typical with wiping > 9 months typical with no wiping		
<b>EXTERNAL POWER<sup>6</sup></b>	8-36 VDC (not required for normal operation); Sleep: 0.1 mA typical Measurement: 16 mA typical; 45 mA max		
<b>HEX SCREW DRIVER</b>	1.3 mm, 0.050 in		
<b>COMMUNICATION DEVICE</b>	TROLL Com Plus or VuLink		
<b>CABLE OPTIONS</b>	Vented or non-vented polyurethane or vented Tefzel® Twist-Lock or Flying Leads termination		
<b>LCD DISPLAY</b>	Integrated display shows status of sonde, sensor ports, connectivity, power information, battery capacity and data log status		
<b>SOFTWARE</b>	Android: VuSitu through Google Play and Amazon App Store iOS: VuSitu through Apple App Store		
<b>CERTIFICATIONS</b>	CE, FCC, WEEE, RoHS Compliant		
<b>DATA SERVICES</b>	HydroVu		

SENSOR	ACCURACY	RANGE	RESOLUTION/PRECISION	RESPONSE TIME	UNITS OF MEASURE
<b>PRESSURE (OPTIONAL)<sup>5</sup></b>	±0.1% FS from -5 to 50°C	Non-Vented or Vented 0-9 m (0-30 ft) 0-30 m (0-98 ft) 0-76 m (0-250 ft) 0-200 m (0-650 ft)	0.01% full scale	T63<1s, T90<1s, T95<1s	Pressure: psi, kPa, bar, mbar, inHg, mmHg Level: in, ft, mm, cm, m, cmH2O, inH2O
<b>BAROMETRIC PRESSURE</b>	± 1.0 mbars	300 to 1,100 mbar	0.1 mbar	T63<1s, T90<1s, T95<1s	psi, kPa, bar, mbar, inHg, mmHg

**NOTES:** <sup>1</sup>Weight includes sonde, sensors, wiper, batteries, and bail. <sup>2</sup>For 30 parameters > 100,000 data records, > 3 years at 15 min. interval. A single data record includes timestamp, temperature, RDO, pH, ORP, turbidity and conductivity logged in Linear or Linear Average mode. <sup>3</sup>Log data recorded to SD card in comma delimited variable (CSV) file format. Greater than 32 GB not supported. <sup>4</sup>Logging all sensors at 15 min interval on 2 D Alkaline batteries. Battery life dependent on site conditions and wiping. <sup>5</sup>User-defined reference. <sup>6</sup>Current from an external power source must not exceed 4 amps.

For interchangeable sensor specifications, see the sensor spec sheet. Specifications are subject to change without notice.

**WARRANTY:** 2 year - Sonde, wiper. 1 year - Accessories. See warranty policy ([www.in-situ.com/warranty](http://www.in-situ.com/warranty)) for full details. See the Aqua TROLL Sensors Spec Sheet for sensor warranty information.

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