



# Aqua TROLL® 600 Multiparameter Sonde

Reduce operational expenses with this customizable, powerful, and easy-to-use multiparameter sonde. The Aqua TROLL 600 combines unique industry-leading water quality technology, built-in LCD display, and revolutionary smartphone mobility. Low power consumption and advanced antifouling for up to 9+ month deployment supports long-term installation in any application.

The Aqua TROLL 600 water quality platform is rugged in groundwater and corrosion-resistant in surface water, delivering accurate, reliable data in an easy-to-use, flexible instrument that performs for years. Base sensor configuration includes EPA-approved optical dissolved oxygen, pH/ORP, turbidity, conductivity, temperature, and pressure. Integrate with In-Situ telemetry systems and HydroVu™ Data Services for real-time feedback on your remote monitoring sites.

### Be Mobile

- Use the Aqua TROLL 600 anywhere: Titanium components and vented or non-vented options make it perfect for challenging environments and long-term deployments in fresh and salt water, Every detail has been engineered to be easy, reliable, and costeffective.
- Save time in the field: Intuitive software simplifies instrument configuration, data analysis, and reporting. No training required, and no waiting for sensor warm-up or set-up.
- Streamline data management: Set up logs and manage data from the field using the VuSitu™ Mobile App. Consolidate all site information on your mobile device and tag sites with photos and GPS coordinates. Log data to your smartphone and download results in a standard file format for profiling, low-flow sampling, and more.

#### Be In-Situ

- Receive 24/7 technical support and online resources.
- Order products and accessories from the In-Situ website.
- Get guaranteed 7-day service for maintenance (U.S.A. only).

#### Be Smart

- Status in an instant: LCD display gives you an instant visual indication of sensor status, data log, battery life, and overall functionality to give confidence during deployment. The onboard SD card allows for quick and easy data backup and transfer.
- No fuss antifouling: Antifouling to protect all sensors.
   The only multiparameter sonde to have a sub-2 inch active antifouling system with cleanable conductivity.
- Get accurate results: Self-compensating tubidity/RDO/ level, smart diagnostics, and stable sensor technology provide minimal drift and increased accuracy with NISTtraceable factory calibration report. Smart sensors store information internally, maintaining data and calibration within the sensor for traceable results.

### **Applications**

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

#### CALL OR CLICK TO PURCHASE OR RENT

## Aqua TROLL® 600 Multiparameter Sonde

Spec Sheet



General			Walking to			
Operating Temperature (non- freezing)	-5 to 50°C (23 to 122°F) ISE: Ammonium & Mitrate O to 40°C, Olfanide 6 to 50°C		Reading Rates	1 reading every 2 seconds 1 pa	s 1 parameter, no wiping	
Sturage Scaperature	Companieds w/o fluid: -40°C to 65°C (man-freezing water); pH/ORP: -5°C to 65°C; Ammanium/Wikinte: Oto 40°C; Chloride: Oto 50°C		Data Logging	58 logs (defined, scheduled to nun, or stored)		
Dievensions	47 m (1.85 in.) 00x 59.2 on (23.3 in.) (includes connectar) Withball: 72.9 on (28.7 in.)		Legging Modes	Linear, Linear Awsage, Event		
Weight	1.45 kg/3.2 lbs (includes all sensors, batteries, and bail)		Logging Rate	I minute to 99 hoom.		
Wetted Materials	PC, PC alloy, Delrin'*, Santagrees**, Income!**, Vites**, Nitanium, Platinum, Geranic, Nylon		Nex Screw Driver	0.050, 1.3 mm		
Environmental Rating	PGS with all senses and cable attached PGF without the sensors, battery cown or cable attached		Communication Device	190LL Core or Window TROLL Com		
Max Fremure Auting	Opto 350 PSI		Cable Options	Writed or non-sented polyusothase or sented leftel*		
Output Options	85-485/MD8905, 501-12, Bluetooth*		LCD Display			
Internal Memory <sup>2</sup> Micro 5D Card <sup>2</sup>	16 MB; 8+ GB micro SD card included, user replaceable		Software	Integrated display shows status of socials, sensor ports, data log, battery and connectivity.  Android**: VeSita through Google Play**, Mindown**. Win Sita 5, Bata Service: Hydra/Au		
Internal Power Battery Life <sup>1</sup>	2 internal aser-replaceable Alicaline Obesteries >6 reaction typical with wiping >9 reaction typical with ne wiping		Interface	Android 4.4, requires Blantouth 2.6; Win-Stra 5 Software		
External Power Voltage	8-36 VDC (not required for normal operation)		Certifications	/C DV servi built transition		
External Power Correst*	Seep: 0.10 mA typical Measurement: 16 mA typical, 45 mA max		- CONTROLLES	CE, FCC, WEEE, Build Compiliant		
Standard Seniors	Accuracy	The state of the s	A CONTRACTOR OF THE PARTY OF TH			
Temperature 1	±4.7-C	Starting Control (1990)	Resolution/Precision	Response Time	Units of Measure	Method
	1557000	-5 to 50° C (23 to 122° F)	0.01+0	T63<24, 790<15s, T95<30s	Culsius or Fahrenheit	EM 170.1
Barumetric Pressure	± 1.0 mban	300 to 1,000 mber	0.1 mbar	163<1s, 190<1s, 195<1s	Pressure: psi, kPa, bar, mbar, inHq, mmHq	Silicon strain gauge
pW*	±0.1 pH unit or better	D to 14 pH units	0.61 pH	T63<3s, T90<15s, 195<30s	pH, mV	Std. Hethods 4500-H- EFA 150.2
OAP?	±5 mW	±1,400 eW	0.1 mV	163<35, 190<15s, 195<30s	INV	SM. Wethods 2580
Conducthisty *	+/-1.5% of reading plus 1 g5/ on flore 0 to 100,000 g5/err; +/- 1.0% of reading from 100,000 to 200,000 g5/rm	O to 350,000 μS/cm	0.1 µ6/m	T63<11, 190<31, 195<56	Actual conductivity (p.S./cm, mS/ cm); Specific conductivity (p.S./cm, mS/cm); Solinity (PSU); Total dissulted solids (ppt, ppm); Resistivity (phron-cm); Density (p.Ym3)	Std. Methods 2510/ EM 128.1
IDS (decired from conductivity and temp)	*	0 to 35D ppt	0.3 ppt	+	EX, Ebu	
Salimity (decired from conductivity and temp)		0 to 350 PSU	0,6 PSU		PSU, post	SM. Methods 2520A
Rugged Bisselved Buygen (ROS) with 850-X*	±0.1 mg/L ±0.2 mg/L ±10% afreading	0 to 6 mg/L 8 to 20 mg/L 20 to 50 mg/L	D.OT mg/L	163<15s, 190<45s, 185<60s	mg/l, % saturation, yem	EM-approved In-Situ Methods: 1002-8-2009 1003-8-2009, 1004- 8-2009
Contribity	±2% of reading or ±2 MIB, FMI, whichever is greater	0 to 4,900 NOU	0.01 NTU (01s-1,000); 0.1 NTU (1,0001s-4,000)	168<15, 190<15, 185<15	MINU, FMU	250 7027
35 (derived from turbidity) **	-	0 to 1,500 mg/L	0.1 mg/L		ppt,mg/L	
Loumonium (Mile* - R)**** Rated to 25m depth	±10% or ±2 mg/L wig.	0 to 10,000 mg/L as M	0.01 mg/L	T63<1s, 190<10s, 195<30s	mg/L, ppm, mV	
inionized Ammonia, otal Ammonio (derived from Immonius & pil sensor)		0 to 90,090 mg/L as N	4.01 mg/L		пул, доп	•
itrate (NOs – N)** ated to 25m depth	±10% or ±2 mg/L w.i.g.	0 to 40,000 mg/L as N	0.01 mg/L	163<1s, 190<1s, 195<1s	mg/L, ppm, mV	Std. Methods 4500 NOs
hloride (Cl)**	±10% or ±2 mg/L volg.	0 to 150,000 mg/L as (7	1/pm 10.0	T63<16, 190<106, T95<306	rrg/L, ppm, mV	Std. Methods 4500-018
restate <sup>10</sup> (ptions)	±0.7% full scale (FS)	Non-Vented or Vented 9.0 m (30th) (Barnt: 27 m; 90 ft) 30 m (100 ft) (Barnt: 40 m; 130 ft) 76 m (250 ft) (Barnt: 107 m; 350 ft)	0.01% full scale	163<1s, 190<1s, 195<1s	Previore: poi, kPa, bar, rebar, refig. mmHg Leach in, P., mm, on, m, cmH20, inH20	Pleanestrive; Ceranic
farranty "	7 NINET - AMPLIANCE VACORDONNET	200 m (650 ft) (Burst: 229 m; 750 ft) ga temperanture/conductivity; temperan		6007	-	
	90 days - IST Sensory Others see s	munitry policy (more, in-situ cons/war				
oles recifications are subject to ange without notice.	1) For 3D parameters > 100,000 data records, > 3 years at 15 min. Interval. A single data record includes structuring, temperature, (RDC), pil., GRE turbidity and conductivity logged in Linear or Linear Average mode. 31 Log data recorded to 50 cast in comma delimited variable (CSV) file format. Genter than 32 GR and supported. 31 Log ging all senses at 15 min interval on 2 D.Albaline hattaries. Enterly life dependent on site conditions and suiping. 40 Dependent an display and suiping, \$15 error only, when transferring from air to embled water temperature. Bytical system response time with all sensors and destinate TGI < Tile, 35 m, TGS < 7 Sm. 61 Response time at thermal equilibrium. 7 Accuracy from collection manual of \$25 c, response-at thermal equilibrium immediately following collection recounting from air to +000 mil. 80 Accuracy at calibration points. 9 ERD sensor full sange 4-50 mg/L, 9-500% set. 19 M-approxed under the Aftermate Fest Procedure process. 300 Oper-defined reference. 11.) Between 2 collection points immediately following paper smeltinning and calibration. Varies on site conditions and environmental interference. Sec some sameway sheet for potential interference. 12.) Average response; can be longer with increasing concentrations.					





