Innovations in **Water Monitoring**

Sensor Summary

Aqua TROLL 500 & Aqua TROLL 600 Sensor Summary

3/2018

Sensor Summary

Sensors	Shelf Life*	Field Life**	Recommended Calibration Frequency**	Pressure Rating - PSI	Usable Depth		Operational Temperature Range
					Meters	Feet	
pH/ORP	15 months	1 year or greater	10 to 12 weeks	350	200	650	- 5 to 50° C
RDO	NA	2 years or greater	12 months	350	200	650	- 5 to 50° C
Conductivity	NA	2 years or greater	User calibration only if needed	350	200	650	- 5 to 50° C
Temperature	NA	2 years or greater	NA	350	200	650	- 5 to 50° C
Turbidity	NA	2 years or greater	User calibration only if needed	350	200	650	- 5 to 50° C
Pressure	NA	2 years or greater	User calibration only if needed	12.8 42.7 108 285	9 30 76 200	30 100 250 650	- 5 to 50° C
Barometric Pressure	NA	2 years or greater	User calibration only if needed	NA	NA	NA	- 5 to 50° C
Ammonium	6 months	6 to 12 months	Monthly	30	25	70	0 to 40° C
Chloride	6 months	1 year or greater	Monthly	350	200	650	0 to 50° C
Nitrate	6 months	6 to 12 months	Monthly	30	25	70	0 to 40° C

* Shelf life is included in total life of sensor.

** Field life and calibration frequency dependent on site conditions.

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Solutions

Solutions	Shelf Life - Unopened	Shelf Life - Opened
Quick Cal	4 months. Store in a cool, dark place. Shake before use.	7 to 21 days (±10 mV, ±0.05 pH, ±50 µS/cm)
ZoBell's	9 months. Store in a cool, dark place.	3 to 6 months
Low Conductivity (147 µS/cm)	12 months	Hours (±1 µS/cm, check before use)
Other Conductivity	12 months	3 to 6 months
pH Buffers	24 months	3 to 6 months
pH Reference Fill and Storage	24 months	12 months
Sodium Sulfite	12 months	3 to 6 months
Turbidity	12 months	12 months from expiration date
Deionized Water	24 months	Hours, check before use for calibration
Ammonium	12 months	3 to 6 months
Chloride	12 months	3 to 6 months
Nitrate	12 months	3 to 6 months

Potential Interferents

pH
Sodium salts

Conductivity
Temperature

Dissolved Oxygen
Temperature, atmospheric pressure, salinity, chlorinity

ORP
Ions that are stronger reducing agents than hydrogen or platinum, e.g., chromium, vandium, titanium, etc.

Ammonium
Cesium, Potassium, Thallium, pH, Silver, Lithium, Sodium

Chloride
Hydroxide, Ammonia, Thiosulfate, Bromide, Sulfide, Iodide, Cyanide

Nitrate
Perchlorate, Iodide, Chlorate, Cyanide, Bromide, Nitrite, Hydrogen Sulfide (bisulfite), Hydrogen Carbonate (bicarbonate), Carbonate, Chloride, Dihydrogen Phosphate, Hydrogen Phosphate, Phosphate, Acetate, Fluoride, Sulfate