

WAVELET RESERVOIR & TANK KIT

SUMMARY

Storing water in reservoirs and tanks is vital to ensure drinking water supply. The Wavelet Reservoir & Tank Kit facilitates better management of water infrastructure and resources, providing the data required to balance water supply, water demand, and utilization of conveyance systems during peak and off-peak periods.

This Wavelet Reservoir & Tank Kit's water-level sensor provides real-time data, creating situational awareness of potential supply-demand mismatch. This enables pump optimization, resulting in energy cost savings and reduced downtime for maintenance. The Kit's total-chlorine sensor can provide continuous indication of water nitrification, which allows operators to take preventive steps before water quality degrades. This constitutes an early-warning system for potential public health issues.



FEATURES

- ▶ Programmable Threshold Alerts
- ▶ In-situ Water Quality Monitoring
- ▶ Autonomous & Continuous Operation Using Solar Panel Assembly

APPLICATIONS

- ▶ Prevent Tank Nitrification
- ▶ Monitor Supply-Demand Mismatch
- ▶ Pump Optimization
- ▶ Manage Distribution & Conveyance Systems

SENSOR SPECIFICATIONS

A. Hydrostatic Level Sensor

Range	0 – 1 bar (0 – 15 psi) included. Ranges of 0 – 0.34/0.69/1.38 bar (0 – 5/10/20 psi) available.
Max. Depth	Submersible up to 140 meters (450 ft)
Accuracy	≤ 0.5% of span
Temperature Compensation	-17°C to 54°C (0°F to 130°F)
Certification	CSA Intrinsically Safe, Class 1, Division 1
Housing	316L SS

B. Total Chlorine Sensor

Range	0 – 20 mg
Resolution	0.01 mg/L for 0 – 20 mg/L (0.001 mg/L for 0 – 2 mg/L range)
Operating Pressure	0 – 1 bar (0 – 15 psi)
Operating Flow Rate	0.015 m/s – 0.06 m/s (0.05 ft/s – 0.2 ft/s)
Operating pH Range	4 – 10
Power	External power required. Solar panel provided as part of the Wavelet Reservoir & Tank Kit.

Model No. WA1111-SE00012-SE00090-WA00154-WA00156

Wavelet Reservoir & Tank Kit includes:

- Wavelet Device & Activator
- 4G (LTE), 3G, 2G Global SIM Card
- Internal Lithium Battery
- Installation Hardware
- External Power Connector
- **WA00154** 10W Solar Panel Assembly
- **WA00156** 2-Port Serial Cable Splitter
- **A. SE00012** Submersible Hydrostatic Level Sensor, 0-1 bar (0-15 psi), 10.7 m (35-ft) Cable
- **B. SE00090** Submersible Total Chlorine Sensor, 0-20 mg/L (0-20 ppm), 11 m (36-ft) Cable