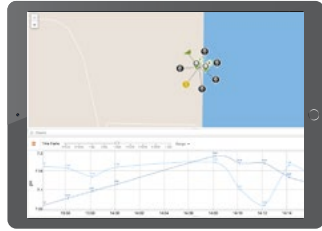


# WAVELET WASTEWATER QUALITY KIT



## SUMMARY

Monitoring wastewater quality is essential to ensure and manage the efficiency of treatment and distribution infrastructure. Wastewater quality has significant implications for public and ecosystem health. Proper management is fundamental to achieving operational excellence and providing outstanding service to consumers.

The customizable Wavelet Wastewater Quality Kit can include up to three sensors measuring various water quality parameters. The fully autonomous system provides regular feedback about the state of the wastewater network, helping network operators ensure public and employee safety and avoid service disruptions.

## FEATURES

- ▶ Plug-and-Play Installation in Sewer Trenches
- ▶ Robust IP 68 / NEMA 6P Enclosure & Hardware for Corrosive Environments
- ▶ Real-Time Situational Awareness with Email & SMS Event Alerts

## APPLICATIONS

- ▶ Maintain Sewage Systems
- ▶ Prevent Network Contamination
- ▶ Ensure that Industrial Wastewater Meets Environmental & Legislative Requirements

## SENSOR SPECIFICATIONS\*

### A. Turbidity & Temperature Sensor

<b>Range</b>	0 – 4,000 NTU
<b>Accuracy</b>	< 5% of reading

### B. Conductivity, Salinity & Temperature Sensor

<b>Type</b>	Conductivity sensor with electrodes
<b>Range</b>	0 - 200 $\mu$ S/cm 0 - 2,000 $\mu$ S/cm 0 - 20 mS/cm 0 - 200 mS/cm
<b>Salinity Range</b>	5 - 60 g/kg
<b>TDS (KCl) Range</b>	0 - 133,000 ppm
<b>Accuracy</b>	$\pm$ 1% of full range

### C. Optical Dissolved Oxygen (DO) & Temperature Sensor

<b>Type</b>	Optical measure by luminescence
<b>Range</b>	0 - 20 mg/L (0 - 20 ppm)
<b>Accuracy</b>	$\pm$ 0.1 mg/L ( $\pm$ 0.1 ppm)
<b>Water Velocity</b>	No minimum velocity

#### D. pH, ORP & Temperature Sensor

	Range	Resolution	Accuracy
pH	0-14 pH	0.01 pH	±0.1 pH
ORP	-1,000 mV - +1,000 mV	0.1 mV	±2 mV
Temperature	0°C to 50°C (32°F to 122°F)	0.01°C (0.2°F)	±0.5°C (±0.9°F)

#### E. TSS Sensor

Type	Light transmission and absorption
Range	0 to 2,000 ppm to 0 to 50% full scale
Resolution	0.05% of full scale
Repeatability	0.05% of full scale

\*Sensors A - D have a pressure of 5 bar (72.5 psi).



Model No. WA1111-SE00017-SE00018-  
SE00019-SE00020-SE00021-WA00129-  
WA00155

#### Wavelet Wastewater Quality Kit includes:

- Wavelet Device & Activator
- 4G (LTE), 3G, 2G, Global SIM Card
- Internal Lithium Battery
- Installation Hardware
- External Power Connector
- **WA00129** External Cellular Antenna
- **WA00155** 4-Port Serial Cable Splitter
- **A. SE00017** Turbidity and Temperature Sensor, 6 m (20-ft) Cable
- **B. SE00018** 4-Electrode Conductivity, Salinity, and Temperature Sensor, 6 m (20-ft) Cable
- **C. SE00019** Dissolved Oxygen and Temperature Sensor, 6 m (20-ft) Cable
- **D. SE00020** pH, ORP, and Temperature Sensor, 6 m (20-ft) Cable
- **E. SE00021** Total Suspended Solids (TSS) Sensor, 15 cm (6 in.) Submersible Style, 6 m (20-ft) Cable