



WAVELET WATER SUPPLY KIT

SUMMARY

The Water Supply Kit is integrated with both a pressure sensor and client selected and provided flow meter for complete water supply management. Monitoring various water supply parameters while using continuous feedback helps improve control of the water network and maximizes the output produced from existing resources and infrastructure.

The Wavelet Water Supply Kit is the perfect solution for understanding the state of the water network at all times in order to better control pumps, monitor critical points in the network, as well as identify service interruptions, thereby ultimately improving overall network efficiency and maintaining a high level of service to consumers.

WAVELET PLATFORM FEATURES

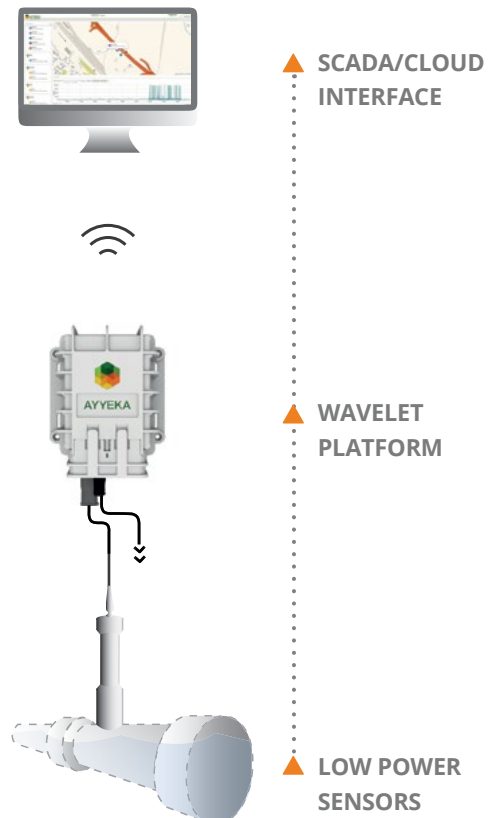
- ▶ PLUG-AND-PLAY
- ▶ BUILT-IN SCADA INTERFACE
- ▶ CYBER-SECURITY
- ▶ USER-FRIENDLY DATA VISUALIZATION
- ▶ CLOUD-BASED DATA STORAGE
- ▶ REMOTE NETWORK MANAGEMENT
- ▶ GLOBAL GSM CELLULAR SERVICE
- ▶ PROGRAMMABLE THRESHOLDS
- ▶ E-MAIL & SMS ALERTS
- ▶ GPS TIME & LOCATION SYNC
- ▶ LOW POWER CONSUMPTION
- ▶ AUTONOMOUS OPERATION



THE WAVELET PLATFORM

Wavelet brings together end-to-end, turnkey solutions that cover all of your continuous remote monitoring needs. Starting from the smart sensors, across the transmission platform, through data management, we have created unique monitoring kits to measure and monitor a range of water supply, water quality, wastewater and hydrologic parameters. Wavelet Kits are all designed to help facilitate more effective water network management.

Ayyeka's Wavelet Kit features a fully integrated, plug-and-play monitoring solution that fits seamlessly onto any water infrastructure and sends the data securely to you. Our Kits provide you with total visibility of your networks. The Kits are easy to setup and use, and will save valuable time and money.



PRESSURE SENSOR SPECIFICATIONS

Operational Temperature	-15°C to 85°C (5°F to 185°F)
Cable Length	5 m (16 ft)
Materials	Ceramic FDM, PPS, Stainless Steel Type AISI 303
Weight	95g (3.4 oz)
Pressure Range	0 to 16 bar (232 psi)
Accuracy	<±0.3%

FLOW METER INPUT DATA

Max. Frequency	30 Hz
# Inputs	2
Input Types	Dry Contact, Open Collector, Modbus Over RS485



The pressure sensor allows for improved network management.

CASE STUDY

- ▶ **Client:** Municipality
- ▶ **Application:** Remote Pressure Monitoring
- ▶ **Description:** Pressure issues and other anomalies in the city network were undetectable via manual monitoring.
- ▶ **Solution:** Use of Wavelet Water Supply Kits were deployed network wide, which identified frequent pressure drops and other pressure regulation issues. The Ayyeka smart water network was integrated with the City's SCADA system to allow for central control and smarter pressure management procedures.



Ayyeka web-based data management system.

WAVELET PLATFORM SPECIFICATIONS

▶ DATA & SOFTWARE

Ayyeka Data Server	Ayyeka Private Cloud and/or Customer On-Premises Server
User Interface	Web-Based, Tablet & Mobile
Data Export Options	Excel, CSV
SCADA & 3rd Party Integration	OPC/DNP3/API
Data Encryption	AES 256
Internal Memory	32 GB

▶ CONNECTIVITY & INTERFACE

Cellular Network	Multi-Cellular Carrier: 2G, 3G and CDMA (Verizon)
Data Transmission Profiles	Periodic, Data Dependent
Event Driven Alerts	SMS, E-Mail, API
Configuration & Upgrades	Remotely Over-The-Air, USB PC Connection
Antenna	Internal or External
SIM Card	Included

▶ POWER

Primary Power Supply	Internal Lithium Battery
Operational Run Time	3,500+ Transmissions per Battery Pack, Field Replaceable Battery
External Power Supply (Optional)	4.5V-28V, Automatic Power Source Switching
Battery Level Notifications	Included

Ayyeka provides cyber-secure, plug-and-play, remote monitoring solutions designed for various markets. Founded in 2011, Ayyeka has an installed base in challenging locations and earned a reputation for excellent customer service. Bringing together a state-of-the-art hardware and cloud-based software package, Ayyeka's solutions are leading the infrastructure monitoring sector into the future.