

By utilizing Ayyeka's state-of-the-art Industrial IoT technology, remote monitoring operations can benefit from greater efficiency, reduced system breakdowns and better regulatory adherence. With robust software integrated into the devices' systems, continuous monitoring provides powerful situational awareness that helps to ensure smooth operation and reduced site visits. It offers ruggedized IP68, NEMA6p hardware, and a powerful feature-rich AI-driven software platform that integrates with almost any 3rd party industrial data management platform.

FEATURES

- High compatibility - attach any sensor to any software system
- Efficient plug-and-play installation connects to new and existing infrastructure saving time and money
- High level security with encryption, authentication and remote updates
- Comprehensive with all required equipment and services
- Solar or AC Power Options

Wavelet 4R
Ultimate Scalability



Wavelet V2
Ultimate Versatility



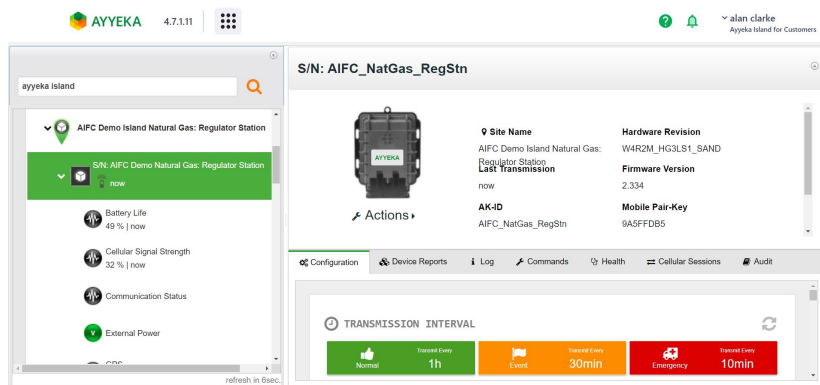
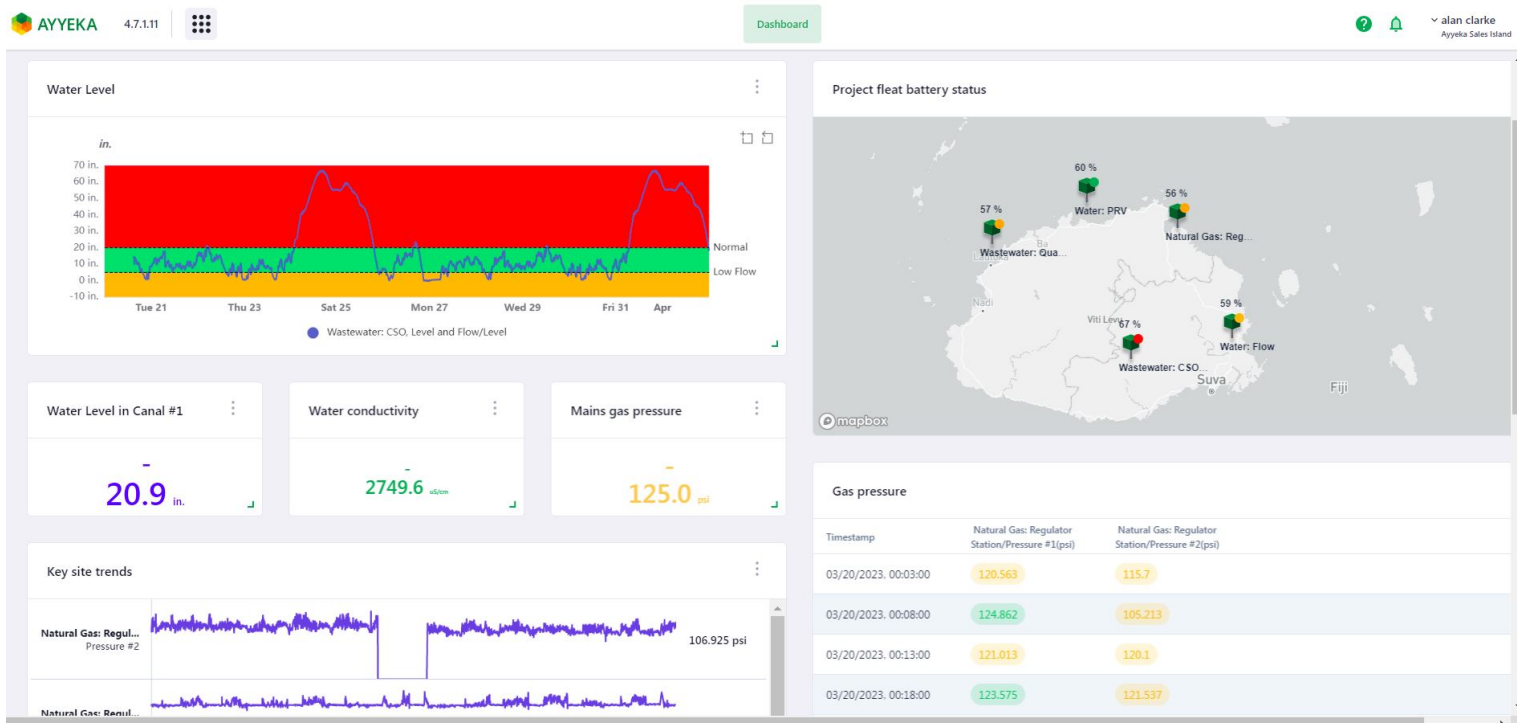
Wavelet Ex V2
Explosive Environment



CALL GEOTECH TODAY
(800) 833-7958

Geotech Environmental Equipment, Inc.
2650 East 40th Avenue Denver, Colorado 80205
(303) 320-4764 FAX (303) 322 7242
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FIELD ASSET INTELLIGENCE PLATFORM (FAI) MANAGING REMOTE DATA & DEVICES



- Monitor all devices using a powerful mapping technology that transforms data into meaningful visual insights.
- Intuitive UI providing full control over real time alerts via SMS, email, or phone call, allowing for quicker response for troubleshooting and secures project assets.
- Instant access to remote assets, creating a connected infrastructure with unparalleled ease. Support for standard protocols ensures reliable integration in existing systems such as SCADA or business intelligence solutions.
- On-demand oversight over devices ensuring their configurations are up to date and firmware remains current.

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Technical Specifications				
	Device	Wavelet 4R	Wavelet V2	Wavelet Ex V2
Data & Software	Data Hosting	Cloud or on-premises		
	Cyber-Security	TLS 1.3 Protocol (AES-256)		
	Software Integration	REST API, CSV		
	SCADA Integration	CSV, DNP3, OPC-UA (Via FAI)		
	IoT Platform Software	Web-base from Internet Enable Device		
	AyyekaGo Mobile App	iOS, Android		
	Data Export Options	CSV, FTP		
	Device Memory	16 MB (~976 samples)	8 GB (~500 million samples)	
	Real Time Clock Accuracy	3ppm from -30C to +80C		
	Data Communication	Bidirectional		
	Alert Notification System	Up to 4 per Data Stream (email, SMS, voice)		
	Health Check	Included		
Power	Primary Power Supply	Internal Lithium Battery (Field replaceable and non-rechargeable), 3.9V DC 3A		
	Battery Capacity	32 Ah		
	Battery Life	Up to 10 Years (usage dependant)	Up to 5 Years	
	Battery Notifications	Included		
	External Power Supply	6-24VDC automatic power switching		
Sensor Inputs	Sensor Connection	Wired with M12 Connectors		
	Serial Interfaces	RS485 or RS232	RS485 or RS232 or SDI-12	
	Analog Inputs	MODBUS, SDI-12, ASCII Text, Custom		
	Digital Inputs	2 dry contact, 2 open drain	5 dry contact, 2 open drain	3 dry contact, open drain
	Pulse Counting	Up to 2 at 30HZ max pulse frequency		
	Digital Outputs	2 at 2.8V with 6mA max	5 at 2.8V with 6mA max	3 at 2.8V with 6mA max
	Sensor Power Supply Output (Switched 12 Volt)	1 port - 250mA, 3.6V or 12V	4 ports with a total 250mA, 3.6V or 12V	3 ports with a total 250mA, 3.6V or 12V
Serial Ports	1 Port; Supports up to 4 sensors using cable splitters			
Connectivity	Cell Technologies Options	(Global) - CAT-M, NB-IoT or (Global) - 4G, 3G, 2G	CAT 3 (Global) - 4G, 3G, 2G	
	LoRa Connectivity***	No support	Factory Installed Option	No support
	SIM Card	Single SIM slot, 4 FF	Dual SIM slots, 3FF	
	Global Roaming	Global multi-network eSIM data plan included for up to 180+ countries		
	Configure/Updates	Bluetooth Low Energy (BLE), remote (over-the-air), USB connection		
	Data Transmission	Periodic, dat-dependent		
	Antenna	External antenna - SMA female	External & Backup internal antenna - SMA female	
Built-In GPS	Included			

***Wavelet V2 must be configured with LoRa Connectivity at time of manufacturing.

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Enclosure	Dimensions (WxHxD)	13.2 cm x 16.5 cm x 7.3 cm		
	Weight	0.7 kg (1.5 lb)	0.75 kg (1.65 lb)	1.0kg (2.2 lbs)
	Enclosure Material	Polycarbonate w/ ABS UL 94-V0 and UV Resistant		
	Ingress Protection	IP 68/NEMA 6P		
	Operating Temp.	-40° to 80°C (-40° to 176°F)		
	Storage Temp.			
Cybersecurity	Data in Transit Security	TLS 1.3		
	Device Authentication	Hardware Based		
	Bluetooth	ECC key exchange, AES-256 encryption		
	Firmware/Security Updates	Full-over-the-air (FOTA)		
	Physical Access	Restricted to diagnostics only		
Certification	Safety	EN 61010-1: 2010, IEC 61010-1		
	Ex approvals		Class I Division 1 Zone 0 ATEX Zone 0 - IECEx	
	FCC	FCC Part 15 Subpart B		
	EMC	N 301 489-1 V2.1.1 2017, EN 301 489-7 V1.3.1 2005		
	Spurious Emissions	EN 301 511 V12.5.1 2017		
	Radiate Emissions	EN 301 908-1 V11.1.1 2016		
	Radiate Emissions	EN 60529:1992 + A2:2013, IEC 60529:1989/AM1:19991		
	CE	Approved		

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