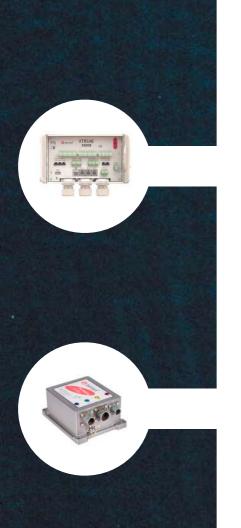


WATER QUALITY MONITORING SYSTEM

Online Real Time Water Quality Monitoring System for Industrial Water Treatment Plants, Rivers, Lakes, Aqua Farming



ABOUT AERON



eron is a fast growing tech company developing innovative solutions for global customers. Aeron offers a wide range of technology driven products and solutions under Inertial Sensing and IIoT verticals. Backed by strong technical knowhow, refined algorithms and domain research, Aeron's products offer premium features at attractive price points.

Aeron started its IoT business with engine temperature monitoring systems for locomotives and vehicle telematics solutions for automotive OEMs. After this initial success, Aeron started offering data logger and weather monitoring station for smart agriculture and solar applications. Today, Aeron offers a large number of solutions like weather and environment monitoring solutions for renewable energy, smart environment and urban infrastructure and manufacturing sectors.

Under INS vertical, we offer highly refined product families of MEMS based inertial navigation systems. Our superior quality hardware and proven algorithms promise a performance better than most global tactical class MEMS systems. Aeron's Inertial Sensors and Systems offer everything that today's tough applications demand: versatility, ruggedness, precision and reliability over time. Aeron also offers a range of tilt sensors, inclinometers, tilt switches and digital compasses.

At Aeron, we believe that expertise is not merely an accident but an outcome of consistent team effort. Passionate people, well equipped manufacturing, testing facilities and excellent support network make us the trusted partner of our customers.



Located in Pune, India



Serving customers in 20+ countries



Installed base of 10,000+ units



India's leading company in Inertial Systems

Water Quality Monitoring System

STRAA M A

Introducing STREAM, a smart water quality monitoring and management system. It allows you to monitor and control the pollution in water sources. Needless to mention water is among the five basic needs of life on planet earth and STREAM allows you to be a responsible consumer.

Based on latest technology sensors and controller, the STREAM is next generation smart system for wide variety of water quality monitoring requirements. The sensors work on UV, Optical and other advance technologies for the real-time measurement of water quality parameters.

The sensors connect with smart controller which captures the data with high precision multiple times every second, applies advance algorithm on the data and makes it available to user on various platforms. User can access the data on local display, desktop PC and mobile.

The STREAM is available in three variants for installations in different operating environment. The unique design offers reliable operation for long time.



STREAM I+

The Inline variant is installed in the bypass line of the water flowing out of water treatment plants like ETP, STP, and WTP. The system can be installed indoor or outdoor near the treatment plant.



STREAM S+

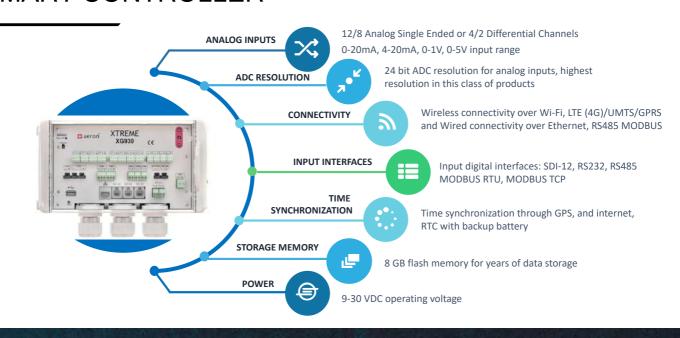
The Submerged version is used for the water in processing tanks, pond, and other submerged applications. The sensor unit is submerged in the water while the controller is installed near the tank.



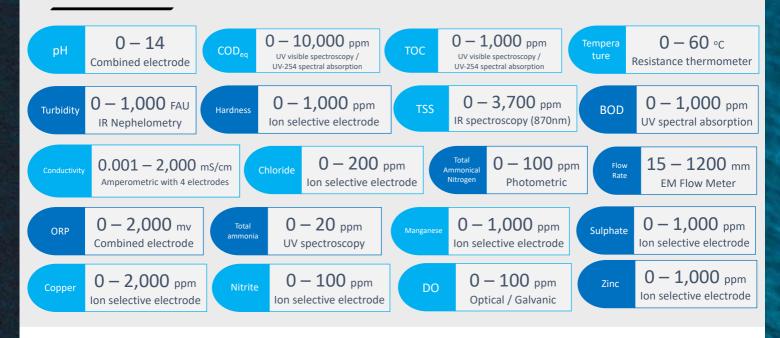
STREAM F+

The Floating variant is a perfect choice for aquaculture, river water quality, lake, and other water bodies.

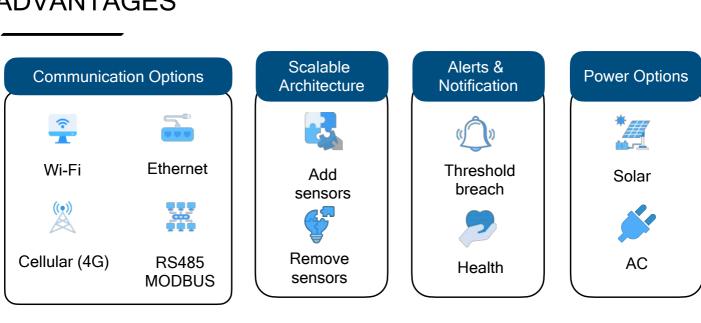
SMART CONTROLLER



PARAMETERS MEASURED



ADVANTAGES



APPLICATIONS



Effluent / Waste Treatment



River / Lake / Surface Water Bodies



Aquaculture / Fish Farming



Sewage Treatment Plant



Swimming Pool



Cooling Tower

XTREME - Smart Data Logger

XTREME 2 is a family of powerful smart data loggers which can acquire measurements from multiple sensors over various analog and digital interfaces and communicate the data securely to the cloud (Ethernet/ Wi-Fi / LTE) for real-time data monitoring.

XTREME 2 is capable of sensor sampling at the rate of 1KHz with industry's leading ADC which has a resolution of 24 bit ensuring precision data acquisition. The device comes with inbuilt storage of 8 GB (expandable to 32 GB).



KEY FEATURES



High Precision

With industry leading 24 bit ADC data is acquired with high resolution and precision



Versatile Inputs

Various analog (0-5V, 0-1V, 0-20mV, 4-20mA), digital and serial inputs (RS232, RS485, MODBUS)



Communication

Wireless communication over 4G/LTE, Wi-Fi, LORA*, NB-IoT*, Wired communication over Ethernet, RS485 MODBUS, RS232



GPS

Built-in GPS for precise time synchronisation and location information

HOW IT WORKS



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ACQUIRE

The logger collects data from various sensors and equipment with analog, digital and serial output

PROCESS

Data is processed, analyzed, and algorithms are applied for high accuracy.

TRANSMIT

Processed data is transmitted further over wired and wireless interfaces

VISUALIZE

Data is stored on cloud and visualized on powerful web application

APPLICATIONS



Weather station for solar & wind projects



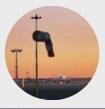
Remote asset monitoring & control



Water quality monitoring and control



Weather Research



Airport Monitoring

FLINT - Versatile IoT Gateway

FLINT WDG45 is a versatile, miniature, wireless IoT gateway that connects with various industrial devices such as PLCs, RTU, energy meters, gas meters, over RS485 MODBUS. The device collects and sends this data to the cloud server over GPRS. It also features an onboard SD card memory of 8GB for local data storage.

WDG45 has an in-built rechargeable backup battery. The device can be powered using a wide range (9-28V) DC supply. The device is compact and can be easily integrated into large OEM equipment so as to facilitate remote diagnostic and data acquisition for machine monitoring.

The WDG45 supports multiple protocols including TCP, HTTP, HTTPS, SMTP, FTP, and other customer IoT protocols.



KEY FEATURES



Local Strorage

Onboard SD card memory of 8GB ensures that your data is not just sent to the cloud but also stored in the device safely



Firmware Over-The-Air

Free software update over the air ensures that your logger is always up-to-date with the latest features and data processing filters.



Onboard Battery

A low power consumption device with built-in battery ensures that you have uninterrupted data collection in your critical application



Easy Configuration

User-friendly software allows easy configuration of the device for quick implementation of your critical Industrial IoT application.

APPLICATIONS



Industrial internet of things



Remote asset monitoring & control



Rooftop Solar Plants



Industrial Equipment



Smart Agriculture

IOT PRODUCT TIMELINE



Wireless Data Logger ACE DLG88 2010



Wireless Data Logger ACE DLG89 2014



Wireless
Data Gateway
FLINT WDG45
2015



Smart Data Logger XTREME 2019



Water Quality Monitoring System STREAM 2019



Weather Station 2012



Air Quality Monitoring System GRETA 2018



Air Quality Monitoring System LAMINAR 2021



Weather Sensors
ALTAIR
2020

"What You Can Measure is What You Can Control"



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