



ECO Siren[®]

QUALITY - FLOW - VISION - SAMPLER WATER QUALITY MONITOR



Wireless Portable Water Quality and Flowmeter with Integrated Multimedia Vision Technology and Sampler

DualWave Ultrasonic Doppler Flow Sensor Included

Multi-parameter Water Sensors

User Replaceable Internal 12V Battery Supply

Solar Panel or AC Power Options

ECOSiren[AQUA][™]

The ECOSiren[®] AQUA is a multi-sensor autonomous wireless monitoring platform designed to work in harsh sewer environments, delivering data to your desk every time. The built-in multi-media platform allows direct connection of our optional vision camera taking simultaneous pictures that correlate directly with sensor readings. Receive alarm emails with images showing the event details and severity.

Dimensions: (Approximately) L: 12in W: 10in D: 5in

Enclosure: IP68 Impact Proof Plastic

Data Storage Internal Storage - 2.5 yr@15 min Sample Rate

Total Images Internal Memory 500 (640x480) Images

Power: Dual 12V Ex Battery Packs
8 Duracell PROCELL (D) Batteries per Pack
User replaceable

StorageTemp. -40 to 60°C (-40 to 140°F)

Multi-Sensor Support: Water Quality
Flow
Level
Sampler
Vision

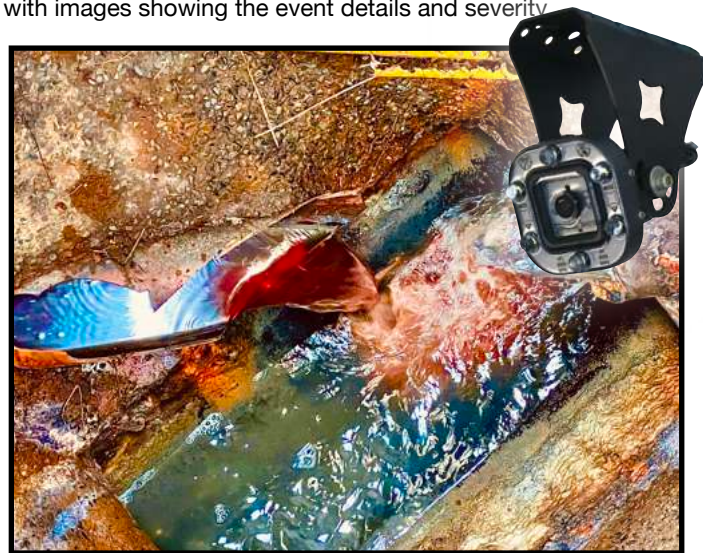
Sample Rate: User Defined, 1minute to 1 Day

Software: FIELDSiren[™] - Laptop - Windows Software
FIELDSiren[™] - Phone - Browser APP
FIELDSiren[™] - Cloud - OnLine APP

Protocol: Compressed Binary

Wireless: World Wide Cellular: 2G,3G,4G LTE, CAT1

Sampler 12V 3 Liter Capacity, with Automated Line Flush Capability



Get Your Sample Every Time

Built in Sampler Automatically Takes Grab Samples



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ECO Siren®

QUALITY - FLOW - VISION - SAMPLER WATER QUALITY MONITOR

ECOSiren® [AQUA]: Designed for Efficiency and Versatility

The ECOSiren® [AQUA] is engineered with user convenience in mind, featuring a streamlined **D-cell battery replacement system** that eliminates the need for costly proprietary batteries—saving both time and money.

Its **universal wireless architecture** supports seamless plug-and-play integration with multiple cellular modules across various protocols, ensuring long-term adaptability and future-proof connectivity. Additionally, the ECOSiren® - AQUA extends beyond the **Blue Siren ecosystem**, enabling direct integration with **OEM sensors**, including **ultrasonic and radar-based level and surface velocity sensors**, for **non-contact measurement applications**.

Further enhancing its capabilities, the ECOSiren® - AQUA is **certified with our world-class Vision technology**, providing advanced remote monitoring **Monitor with Vision®**, delivering unparalleled data insights and operational efficiency.



FLOW LEVEL VISION Sensor Options

Dual Wave Doppler
Flow AV Sensor



5MP Vision
Technology with
Super Bright LED
System
Monitor with Vision®

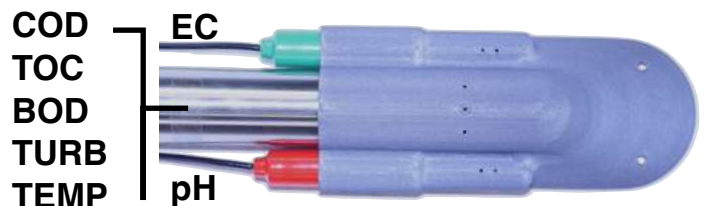


Grab Sampler
Fit Under the Lid or
in Tight Spaces



WATER QUALITY Sensor Options

pH	Fluorine Sensor
EC / Conductivity/TDS	Corrosion Rate
Dissolved Oxygen	Chlorophyll
Residual Chlorine	Chroma
Turbidity / SS Sensor	Oil in Water
Potassium Ion	Hardness
Ammonia / Ammonium	COD
BOD	Blue Green Algae



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**Port Expander
Turn one Port
Into 8 Sensor
Input Ports**

- **FLOW**
- **DEPTH**
- **VELOCITY**
- **VISION**
- **COD**
- **BOD**
- **TOC**
- **TURBIDITY**
- **TEMPERATURE**
- **AMMONIA**
- **pH**
- **EC**
- **DO**
- **SAMPLER**



Rugged Connectivity for Every Sensor

Engineered for maximum flexibility, the Blue Siren Expansion Port transforms a single connection into **eight fully independent, IP68-sealed channels**, delivering seamless support for a wide range of critical sensors. Built from **marine-grade encapsulated plastic**, this expansion hub is designed to withstand the harshest field conditions—salt, spray, and submersion—while ensuring long-term reliability.

Compatible with the full suite of Blue Siren and OEM technologies—including **flow, depth, velocity, vision, COD, BOD, TOC, turbidity, temperature, ammonia, pH, EC, DO, and samplers**—the Expansion Port makes scaling your monitoring network simple and efficient. Whether deployed in industrial, environmental, or municipal applications, it provides the robust backbone needed for **multi-sensor, high-performance water quality monitoring**.

Technical Specifications:

Connectors IP68 Sensor Connectors

Body Material Interior: Machined HDPE Marine material with UV stabilizers

Ports: 8 Expansion Ports, Flow, Vision, Sampler and Water Quality

Operating Voltage: 12V - 24V

Cable Material: Chlorinated Poly Ethylene

Temperature Range: 32°F to 170°F

Cord Weight: 1.22lbs

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**Portable IP68 Enclosure with Internal
12 V Power supply**



**Permanent Wall or Kiosk Mount complete
with Solar or AC Power Supply**

ECOSiren® AQUA – Flexible Enclosure Options for Every Application

The ECOSiren® AQUA is designed to adapt to your monitoring environment with two robust enclosure configurations:

- **Portable IP68 Case** – A rugged, waterproof housing built for mobility. Outfitted with long-life batteries, this portable system delivers reliable performance in the field, making it ideal for temporary deployments and rapid-response monitoring.
- **Wall or Kiosk-Mounted Platform** – A fixed installation option that combines solar power and AC capability for continuous, maintenance-friendly operation. Perfect for permanent monitoring sites, this enclosure ensures uninterrupted data flow with sustainable energy flexibility.

Whichever enclosure you choose, the ECOSiren® AQUA offers the same future-proof connectivity, compatibility with OEM sensors, and advanced Vision® remote monitoring technology—delivering dependable performance in both portable and fixed-site applications.

5MP LOW LIGHT VISION CAMERA SENSOR

5MP Low Light CCD Camera, with Bright LED

Rugged Enclosure

Maximum 5MP resolution

Built-in Compression

Easy to use mounting bracket



Monitor With Vision[®]

The **Blue Siren 5MP High-Output LED Camera Sensor** is a powerful, high-resolution imaging solution designed for a wide range of applications, including **sewer inspection, grease clog detection, inflow and infiltration (I&I) monitoring, storm grate surveillance, and camera-based infrastructure security.**

With **automated image capture and seamless data transmission**, the sensor can store and send images directly to any server or web-based platform. Sensor readings are **automatically time-synced with image data**, enabling precise correlation between visual and environmental conditions for deeper analysis and enhanced decision-making.

Technical Specifications:

Pixel Resolution : 2592x1944 (5MP), 2048x1536 (3MP), 1920x1080 (2MP), 1600x1200, 1280x960 (1MP), 1024x768 (.7MP), 800x600 (.5MP), 640x480

Sensor: 1/2.8" CMOS

Baud Rate: 115200bps (default), 19200bps, 38400bps, 57600bps, optional

Angle of View (FOV): 60 degree (default), 120/90/45/30/15/8 degree Optional

Focal Length: 3.6mm (default), 2.8mm/6mm/8mm/ 12mm/ 16mm/25mm Optional

Minimum Illumination: 0.01LUX

Operating Temperature: -4°F-140°F

Sample Rate: Minimum 1 minute

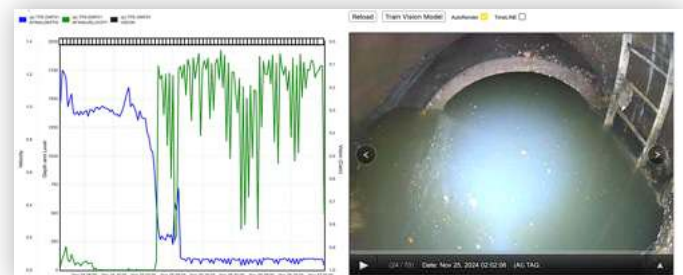
Auto Gain Control: Automatic

Exposure: Automatic

Timelapse Movie Viewer with (Ai)



View data and images side by side using our unique time lapse viewer. Easily correlate dry vs wet weather flows or train image model to detect anomalies



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DUAL WAVE FLOW (AV) ULTRASONIC DOPPLER AREA VELOCITY SENSOR



Fully Submersible

Dual-Wave Doppler Technology

Averaging Algorithms Applied

Doppler frequency is proportional to the speed of water in mm/s, m/s and ft/s

Dual-Wave Area-Velocity Sensor

The **Blue Siren Dual-Wave Acoustic Velocity (AV) Sensor** leverages **Doppler-based acoustic technology** to deliver precise velocity measurements in flow monitoring applications. This advanced AV sensor integrates **high-sensitivity pressure-depth and velocity sensors**, ensuring accurate and reliable data acquisition.

All electronics, including an **internal water temperature sensor**, are fully encapsulated within the sensor housing for enhanced durability and environmental protection. The sensor outputs **velocity via a serial digital data stream**, while **depth is transmitted through an analog 0-5V signal**, ensuring compatibility with various data acquisition systems.

Its **Dual-Wave Technology** employs **dual transmitters**, saturating the flow stream with a higher density of acoustic signals, thereby expanding the measurement range and enhancing the acoustic profile for superior velocity measurement.

Technical Specifications:

Depth: 30ft (10m) 15 PSI or 10ft (3m) 5 PSI

Accuracy: +/- 2% Laminar Flow

Input Voltage: 6-16V DC

Warmup Time: 2 seconds minimum

Resolution: 1 mm/s

Range: 0 to +10m/s optional Reverse

Cable: 7.62m (25ft) Standard

Response Time: 4 digital samples/second

Serial Output: UART - TTL, RS485, Hz

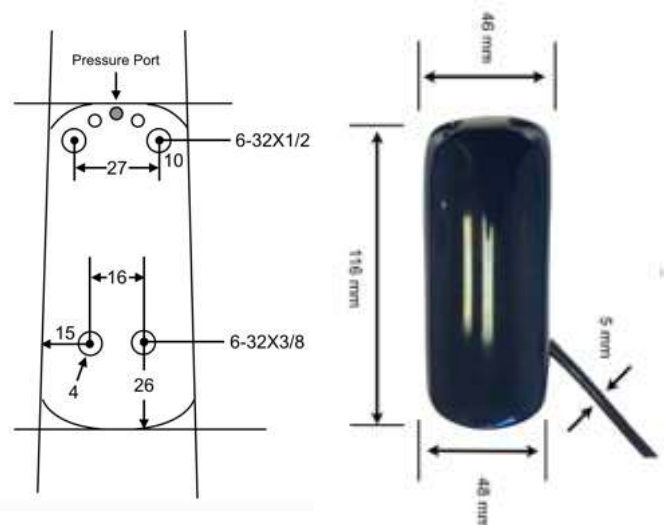
Transmission: 500 KHz

Depth Output: 0 - 5V

Depth Accuracy: 5PSI (+-) 1mm or 15PSI (+-) 2mm

Burst Height: > 100ft (15PSI)

Redundancy: Multiple Sensors can be used simultaneously using Dual Wave technology without cross talk



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OEM RADAR LEVEL VEGA NON-CONTACTING RADAR LEVEL SENSOR

ATEX Zone 1 or Zone 0

Industry Standard Reliability

Maintenance-free operation due to non-contact 80 GHz radar technology

Low Power, Ideal for Remote Monitoring

OEM RADAR LEVEL

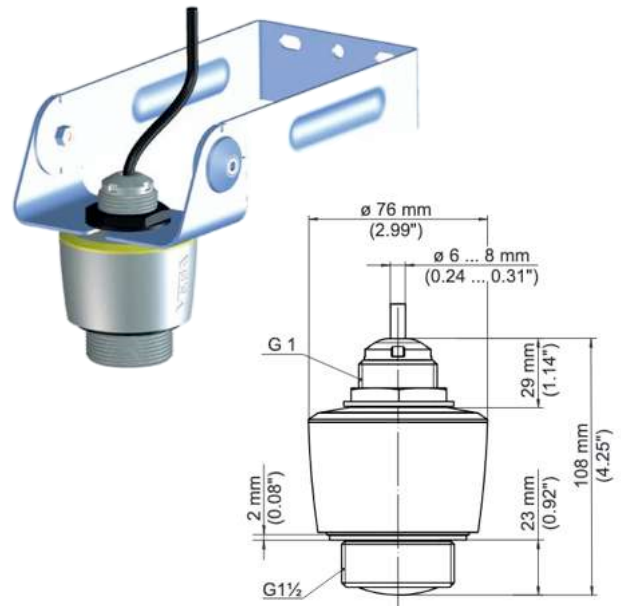
Blue Siren designed an intrinsically safe circuit that can be used with industry standard OEM sensors including the reliable Vega C21 non-contacting radar level sensor.

The VEGAPULS C 21 is a highly accurate radar sensor designed for non-contact level measurement in standard applications requiring a high degree of protection. It is particularly well-suited for water treatment, pumping stations, rain overflow basins, open-channel flow measurement, level monitoring, and various industrial applications. The device operates by emitting a continuous radar signal through its antenna, which is frequency-modulated. This signal is reflected by the medium and received as an echo, with the frequency difference between the emitted and received signals being proportional to the distance and dependent on the filling height. The measured filling height is then converted into a corresponding output signal, providing precise level measurement.

Technical Specifications:

Measuring range up to	20 m (65.62 ft)
Beam angle	8°
Measuring frequency	W-band (80 GHz technology)
Maximum Separation:	Up to 1,000 m (3,280 ft)
Process temperature	-40 ... +80 °C (-40 ... +176 °F)
Accuracy	• ± 2 mm
Protection rating	IP66/IP68 (3 bar, 24 h) acc. to IEC 60529, Type 4X/6P acc. to UL 50
Materials, wetted parts	PVDF

ATEX Approval: Ex II 1 G D, Ex ia IIC T4 Ga, Ex ia IIIC T135°C Da (Directive 2014/34/EU)



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DIGITAL ALARM SWITCH

Real Time High Level Alarm and Vision Trigger

Leak Proof

Shock Proof

Impact Resistant

Resistant To Sewage And Wastewater Applications

Operating Temperature Range Of 32°F to 170°F



High Level Alarm

Easily monitor and send alarms when water levels reach a critical point. The internal switch activates as the float rises 1" or 5" above horizontal.

Leak-proof operation makes this sensor optimal for monitoring water and wastewater applications.

Mini and Standard sizes are available.

Technical Specifications:

Body Material Exterior: Durable PolyPropylene

Body Material Interior: Solid Polyurethane Foam

Actuation Point: 1" Above/Below Horizontal

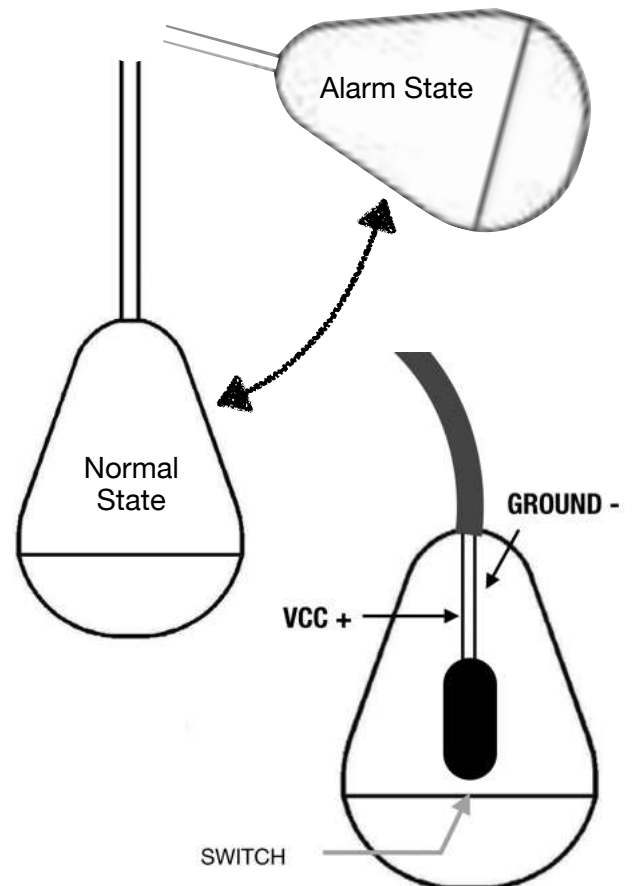
Operating Voltage: 10 AMP - 120V AC
3 AMP - 240V AC

Cable Material: Chlorinated Poly Ethylene

Temperature Range: 32°F to 170°F

Cord Weight: 1.22lbs

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Multi-Parameter Optical COD-TOC-BOD-TURBIDITY- TEMPERATURE SENSOR



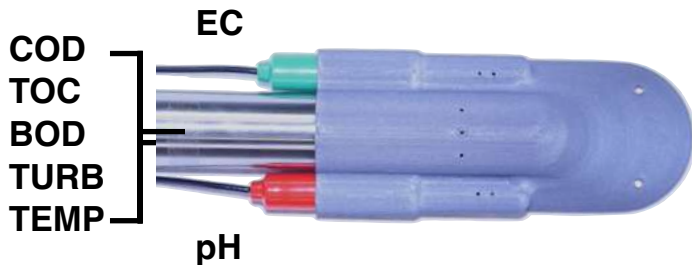
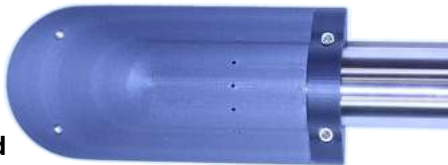
Blue Siren COD/BOD/TOC/Turbidity/Temperature Sensor Next-Generation Dual-Light Technology for Precision Water Monitoring

The Blue Siren COD Sensor delivers reliable, real-time water quality insights using advanced dual-light technology for unmatched measurement accuracy.

- **UV Light Source:** Detects organic compound absorption to calculate Chemical Oxygen Demand (COD) with high precision.
- **Reference Light Source:** Continuously monitors turbidity, compensating for clarity variations that affect accuracy.
- **Optical Path Compensation:** Intelligent algorithms automatically adjust for signal loss and particle interference, ensuring stable and dependable results.

Built for industrial, municipal, and environmental applications, this sensor provides consistent, high-precision monitoring of COD, BOD, TOC, turbidity, and temperature—empowering operators to make confident, data-driven decisions.

Install Sensor in
Foul and Storm
Sewers using
Protective
Hydrostatic Shield



Direct Flow Installation using Multi parameter
Hydrostatic Shield

Measuring Principle Dual wavelength ultraviolet absorption method

Measurement Parameters COD, Turbidity, BOD, TOC

Measuring Range COD: 0~200 mg/L, 0~500 mg/L (equiv. KHP), 0~1500 mg/L (equiv. KHP)

Turbidity: 0~1000 NTU, 0~2000 NTU

BOD: 0~100 mg/L, 0~650 mg/L

TOC: 0~150 mg/L, 0~450 mg/L

COD Accuracy ±5%

COD Resolution 0.1 mg/L

Turbidity Accuracy ±5%

Turbidity Resolution 0.1 NTU

BOD Accuracy ±5%

BOD Resolution 0.1 mg/L

TOC Accuracy ±5%

TOC Resolution 0.1 mg/L

Calibration 2-point calibration

Signal Output RS-485 (Modbus/RTU)

Power Supply 12~24V DC

Power Consumption 0.3W @ 12V

Storage Temperature -5~65°C

Working Conditions 0~50°C, <0.2 MPa

Protection Rating IP68

Installation Submersible

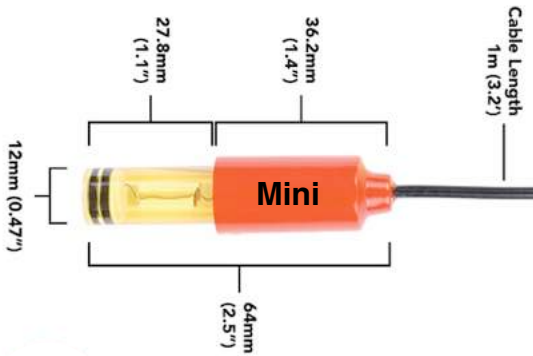
Cable Length 5m cable

Shell Material Stainless Steel 316L

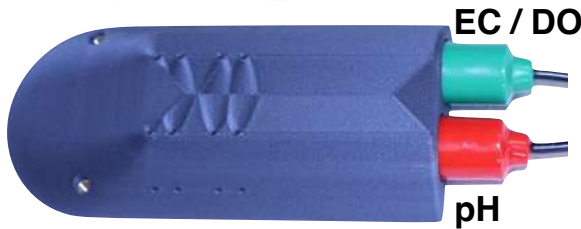
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Hydrogen Potential pH Sensor



Mini pH, small lab grade, submersible sensor for small hard to reach areas.



EC / DO Dual Sensor, Option, Combine pH with EC or DO for a flow ready, Dual Water Quality Solution

Technical Specifications:

Measuring range 0~14.00pH; 0~135°C

Resolution 0.01PH; 0.1 °C

Accuracy 0.01PH+1Digit; 0.1°C +1Digit

Electrode 0.05cm-1 sanitary grade electrode, 1/2" thread

Current output Isolated protection 4-20mA signal output

Cable length 10m or others(5~30m)

Working conditions temperature : 0~50°C; Humidity : ≤85%RH

Single Sensor Deployment

Sonde Multiparameter Deployment

Direct Flow Stream with Hydrostatic Shielded

Combo Flow with DO, EC, pH

The **Blue Siren Industrial Digital Water pH Sensor** delivers accurate pH measurement in demanding environments, from acid and alkali solutions to industrial chemical processes. With RS485 Modbus/RTU output, it integrates easily with monitoring and control systems for continuous online measurement. A dual high-impedance amplifier ensures fast response and strong resistance to interference, providing stable, reliable data.

Its **patented long-life probe** uses a pressurized reference system for over 20 months of consistent performance—far exceeding standard electrodes. Designed for durability, it features a 3/4-inch NPT mounting thread, separable probe and display, and full IP68 waterproof protection, making it a rugged, low-maintenance choice for industrial applications.



Install Single Sensor in Sonde Cradle for Multi Parameter Applications

Install Sensor in Foul and Storm Sewers using Protective Hydrostatic Shield



EC
pH
DO



Direct Flow Installation using Multi parameter Hydrostatic Shield

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Electrical Conductivity EC Sensor

Single Sensor Deployment

Sonde Multiparameter Deployment

Direct Flow Stream with Hydrostatic Shielded

Combo Flow with DO, EC, pH

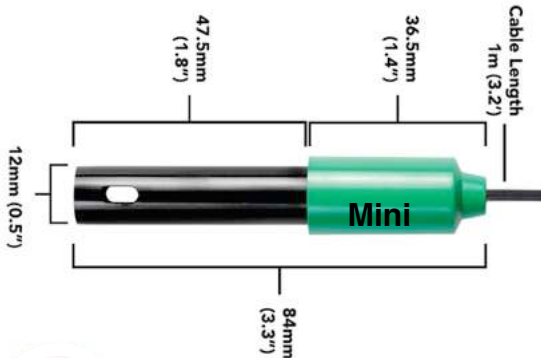
The **Blue Siren Industrial Electrical Conductivity Sensor** is built for precise, dependable measurement in harsh industrial environments, including acid, alkali, and salt solutions, as well as complex chemical processes. Engineered for continuous online monitoring, it delivers stable, accurate results with rapid response times and strong resistance to electrical interference.

Its rugged design, crafted from high-quality materials, ensures durability even under the toughest conditions. With standard threaded connections, installation is simple and secure for both pipelines and tanks. Built for long-term performance, the sensor provides reliable conductivity monitoring that industries can trust.



Industrial Grade
Sensor

Mini EC, small lab grade, submersible sensor for small hard to reach areas.



Technical Specifications:

Measurement Range and Resolution	0-50,000 uS/cm
Accuracy	±1.0%F.S.
Operating temperature	0~65°C
Working pressure	<0.6MPa
Power Supply	12VDC~24VDC ±10%
Output Mode	Rs485(Modbus/RTU)
Wetted material	PP(default)/PPS/PVC/PP(customizable)
Installation	3/4 "NPT thread, immersion mounting
Cable Length	5m, other length can be customized
Temperature compensation	Automatic temperature compensation
Calibration method	Two-point calibration
Power	<0.5W
Degree of protection	IP68



Install Single Sensor in Sonde Cradle for Multi Parameter Applications

Install Sensor in Foul and Storm Sewers using Protective Hydrostatic Shield



DO
EC
pH



Direct Flow Installation using Multi parameter Hydrostatic Shield

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Dissolved Oxygen DO Sensor

Single Sensor Deployment

Sonde Multiparameter Deployment

Direct Flow Stream with Hydrostatic Shielded

Combo Flow with DO, EC, pH

Technical Specifications:

Measurement Range	DO: 0–20 mg/L (0–20 ppm, 0–200%) Temperature: 0–45°C
Accuracy	DO: ±3% of measured value Temperature: ±0.5°C
Pressure Range	≤0.3 MPa
Calibration	Air automated calibration, sample calibration
Main Material	Body: SUS316L + PVC (freshwater), Titanium alloy (marine) O-ring: fluorine rubber; Cable: PVC
Power Supply	AC: 100–240VAC (50/60Hz) DC: 9–36VDC (12–24VDC recommended)
Output	2 × 4–20mA outputs 3 × relay outputs (programmable)
Communication Protocol	RS485 Modbus RTU (customizable)
Storage Temperature	-15 to 65°C
Measuring Temperature	0 to 45°C
Dimensions	Sensor: Ø55 mm × L 342 mm Transmitter: 142 × 142 × 162 mm (L×W×H)
Weight	Sensor: 1.85 kg Transmitter: 1.35 kg
Protective Rate	Sensor: IP68 / NEMA 6P Transmitter: IP65 / NEMA 4X
Cable Length	Standard: 5 m (extendable to 100 m)
Notes	Embedded temperature sensor included

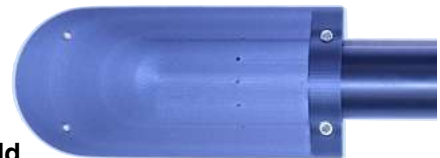
The Blue Siren Optical Dissolved Oxygen Sensor delivers precise and stable readings using advanced fluorescence technology. A blue LED excites a specialized sensing surface, and the resulting signal reveals oxygen levels with high accuracy.

To ensure consistent performance in real-world conditions, the sensor includes built-in temperature and pressure compensation. This allows it to provide reliable dissolved oxygen measurements across a wide range of environments.



**Install Single
Sensor in Sonde
Cradle for Multi
Parameter
Applications**

**Install Sensor in
Foul and Storm
Sewers using
Protective
Hydrostatic Shield**



**EC
DO
pH**



**Direct Flow Installation using Multi parameter
Hydrostatic Shield**

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Turbidity Sensor



Built in Wiper Cleans Optical Lens Before Every Reading



Hydrostatic Shield Protects Sensor and Allows for Installation in Flowing Conditions

Technical Specifications:

Measurement Range	Optical method
Working Principle	0-20.00NTU, 0-200.0NTU, 0-4000.0NTU
Measuring Range	±3% FS
Accuracy	0~50°C, 0~2Bar
Working Temperature	316 stainless steel
Material	12~24VDC
Power Supply	3/4" NPT Thread
Connection	RS485 Modbus RTU & 4-20mA
Signal Output	2-point calibration
Calibration	IP68
Protection	5m cable
Cable Length	

Single Sensor Deployment

Sonde Multiparameter Deployment

Direct Flow Stream with Hydrostatic Shielded

Combo Flow with DO, EC, pH

The **Blue Siren Industrial Water Turbidity Sensor** is engineered for accuracy and reliability in demanding water quality monitoring applications. Using advanced optical technology, it measures turbidity across a wide **0-3000 NTU range**, with an **embedded temperature sensor** that provides real-time compensation for stable, dependable readings. Its robust design ensures consistent performance in both industrial and environmental settings.

Fully integrated into the **Blue Siren product network**, this sensor operates on a **12-24V DC power supply** and comes equipped with a **5-meter cable** for flexible installation. Whether in water treatment plants, process industries, or environmental monitoring projects, it delivers the precision, durability, and seamless compatibility required for long-term operation.



Install Single Sensor in Sonde Cradle for Multi Parameter Applications

Install Sensor in Foul and Storm Sewers using Protective Hydrostatic Shield



**EC
TURB.
pH**



Direct Flow Installation using Multi parameter Hydrostatic Shield

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Ammonia Nitrogen NH₃ / NH₄ Sensor



Combined NH₃ Sensor with Sampler Intake for Trade Waste, Industrial Monitoring project



Single Sensor Deployment

Sonde Multiparameter Deployment

Direct Flow Stream with Hydrostatic Shielded

Combo Flow with DO, EC, pH

The **Blue Siren Ammonia & Ammonium Sensor** delivers accurate, real-time monitoring of ammonia (NH₃) and ammonium (NH₄⁺), essential for managing water quality in industrial and environmental applications. While ammonium supports biological processes, high levels can trigger algae growth and, through nitrification, lead to nitrate (NO₃⁻) formation that reduces dissolved oxygen in aquatic systems.

In water, ammonia appears as toxic non-ionic NH₃ and the less harmful NH₄⁺ ion. Their balance depends on pH and temperature, with NH₃ becoming more dominant at higher pH and colder conditions. By precisely measuring these dynamics, the Blue Siren Sensor helps protect aquatic life and maintain healthy water systems.

Technical Specifications:

Measuring range 0~10.00mg/L(0~100.00mg/L)

Resolution ±0.5°C

Accuracy ±10% or ±1mg/L

Current output Isolated protection RS485 signal output

Cable length 5 meters, other lengths can be customized

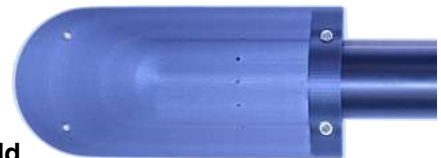
Temperature 0~40°C

Working conditions temperature : 0~50°C; Humidity : ≤85%RH



Install Single Sensor in Sonde Cradle for Multi Parameter Applications

Install Sensor in Foul and Storm Sewers using Protective Hydrostatic Shield



EC
NH₃
DO



Direct Flow Installation using Multi parameter Hydrostatic Shield

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WATERWAI™

Wireless Cloud Delivery and MultiModal Data Analysis

View and Analyze Real Time Data

Automatic Data Management

Radar Rainfall and Prediction

Manage Large Networks

Alarm Management and Ground Truthing

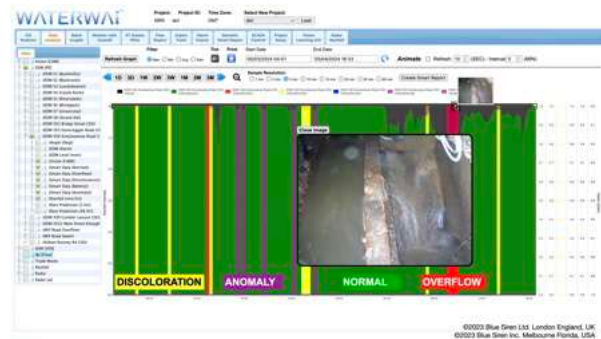
MULTIMODAL ENVIRONMENTAL ANALYTICS

WaterWAI is a cutting-edge, cloud-hosted multimodal data management system that seamlessly integrates environmental sensor data with images, video, and other media for unparalleled ground-truth validation. Designed for scientists and analysts, it unifies geospatial and time-series data with visual evidence, enhancing accuracy and contextual depth in environmental monitoring. WaterWAI's advanced GIS engine supports predictive heat-maps, real-time overlays, and in-depth analytics, including I&I (Inflow & Infiltration) assessments and IDF (Intensity-Duration-Frequency) modeling. With dynamic visualizations—scatter plots, line graphs, and spatial models—alongside intuitive data export and smart reporting, WaterWAI transforms fragmented datasets into cohesive, actionable insights. Powered by high-availability cloud infrastructure, it ensures rapid, AI-enhanced analysis, making environmental intelligence more intuitive, verifiable, and predictive than ever.

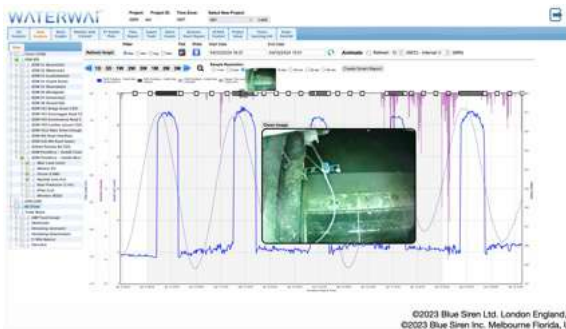
ACTIVE GIS with HEAT-MAP MODELING



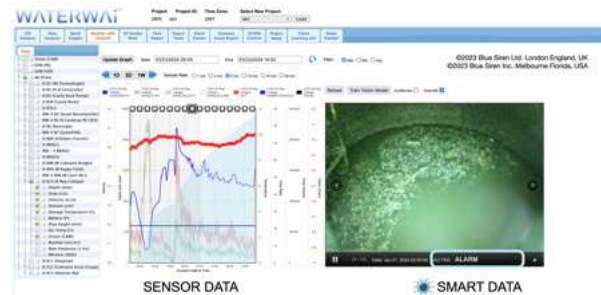
SMART (Ai) DATA TAGS . . Turn Images into Data



MULTIMODAL DATA ANALYTICS



TIMELAPSE MOVIE VIEWER



ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION, DESIGN OR OTHERWISE. ... It shall be the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application.