

Dimensions:	(Approximately) L: 12in W: 10in D: 5in
Enclosure:	Impact Proof Plastic
Data Storage	Internal Storage - 2.5 yr@15 min Sample Rate USB - over 20 years
Total Images	Internal Memory 500 (640x480) Images, USB over one million, Storage changes with image resolution"
Output:	RS485, Sampler Pulse, LCD
Power:	Logger: 3.3 V, Internal: 12 V, External: Max 16 V
Operating Temp.	-40 to 60°C (-40 to 140°F)
Connectors:	Vision Port / 12 Channel Output Port External Wireless / Antenna Port
	12 Channel Sensor Input Port Internal USB and Wireless Port
Battery Packs:	•
Battery Packs: Sample Rate:	Internal USB and Wireless Port
•	Internal USB and Wireless Port Internal Dual 12 V D-Cell Alkaline Power Supply
Sample Rate:	Internal USB and Wireless Port Internal Dual 12 V D-Cell Alkaline Power Supply User Defined, 1 to 60 minutes
Sample Rate: Software:	Internal USB and Wireless Port Internal Dual 12 V D-Cell Alkaline Power Supply User Defined, 1 to 60 minutes Field-Siren Windows GUI, Cloud Programmable
Sample Rate: Software: Protocol:	Internal USB and Wireless Port Internal Dual 12 V D-Cell Alkaline Power Supply User Defined, 1 to 60 minutes Field-Siren Windows GUI, Cloud Programmable Compressed Binary

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.

ECOSiren®

WIRELESS FLOW and WATER QUALITY MONITOR

Select Four Water Quality Sensor Options, and Combine with Flow or Level Sensor.

Optional Sampler Cable Allows for Flow and Alam Based Water Sampler

Connect Multiple Sensors, up to 20 Channels

User Replaceable Internal 12V Battery Supply

Modular Wireless Design allows 4G or WiFi Connectivity

ECOSiren[®] - GO ECO

The ECOSiren® is a multi-sensor autonomous wireless monitoring platform designed to work in outdoor field environments, delivering data to your desk every time. The builtin 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.

Automatically upload data for analysis to BlueLive® Cloud, DropBox®, GoogleDrive® or FTP location of your choice. Future proof worldwide LTE wireless module supports multiple countries and cellular frequencies, WiFi option also supported.



Monitor with Vision®

Each ECOSiren® monitor has a standardized camera port allowing you to monitor with vision® at any time. Great for overflow verification, industrial trade waste color, and Infiltration detection. Camera resolution can range from 5MP all the way down to 0.1MP, complete with user programmable compression.



Standardized Camera Port on Every ECOSiren® Monitor



Technical Specifications:

Body Material:	CPVC, Graphite, Viton
Temp. Probe Type	Class A Platinum, RTD
Reads:	Conductivity = μ S/cm Total Dissolved Solids = ppm Salinity = PSU (ppt) 0.00 - 42.00
Response Time:	1 Reading Per Second
Max Depth:	60m (197ft)
Max Pressure:	200 PSI
Range:	5 - 200,000 µS/cm
Accuracy:	+/- (0.15 + (0.002*t))
Operating Voltage:	3.3V - 5V DC
Temperature Range °C:	0°C to 110°C
Temp. Compensation	Yes
Cable:	3 Meters (10 Feet)
Data Protocol:	UART and I ² C
Data Format:	ASCII

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Electrical Conductivity EC Sensor

Fully Submersible

Max Pressure Of 200 PSI

Temperature Range Of 0-110°C

Embedded Conductivity Circuit

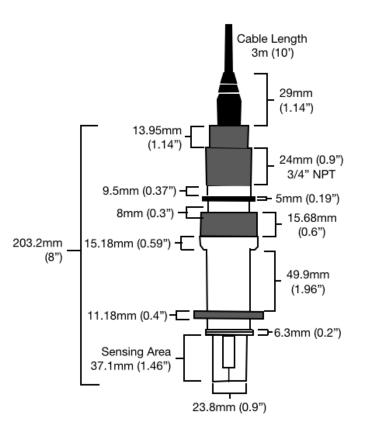
Continuous 1 Reading Per Second

Electrical Conductivity

Easily measure and monitor EC levels for industrial, water and wastewater applications.

Two electrodes are stored opposite of each other in the EC probe. When power is applied cations move to the negative electrode while anions move to the positive electrode. The higher the number of free electrolytes in the fluid the higher the EC reading.

This high-temperature resistant sensor is great for industrial application for any fluids up to 60m in depth.



pH Sensor



Fully Submersible

Max Pressure Of 100 PSI

Temperature Range Of 1-99°C

Double Junction Silver/Silver Chloride

Measure from 0 to 14 pH

Monitor 0-14 pH

Easily measure and autonomously monitor pH levels in water and wastewater applications.

Fully submerge the pH probe into any fresh, salt, or industrial water up to 60m. The probe's glass membrane allows hydrogen particles to diffuse through its outer layer which react with hydrogen particles left in the fluid.

This high-temperature resistant sensor is great for industrial and sewage applications and can monitor pH levels up to 100 PSI with an accuracy of +/-0.002.

described in the product specification is suitable for use in a particular application.

Accuracy:	+/- 0.002	
Operating Voltage:	3.3V - 5V	Cable Length 3m (10')
Temp. Compensation	Yes	
Resolution:	0.001	19.6mm (0.8") 3/4" NPT
Range:	0.001 - 14.000	
Temp. Probe Type	Class A Platinum, RTD	— 86.3mm (3.4")
Cable:	3 Meters (10 Feet)	152mm (6")—
Data Protocol:	UART and I ² C	
Response Time:	1 Reading Per Second	Sensing Area
Data Format:	ASCII	26.4mm (1")
Temperature Range °C:	1°C to 99°C	17.5mm (0.7")
Life Expectancy:	~4 Years +	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

Technical Specifications:

Weight:

Body Material:

Max Pressure: 100 PSI

Max Depth:

250 Grams

60m (197ft)

Ryton Thermoplastic



Dissolved Oxygen DO Sensor

Fully Submersible

Max Pressure Of 500 PSI

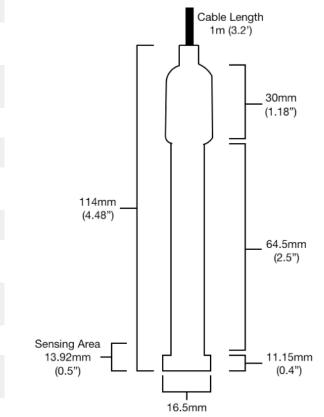
Temperature Range Of 1-50°C

Measure Concentrations of 0.01 -100+ mg/L

Monitor dissolved oxygen levels in water and wastewater using this sensor. Easily connect to the SOLOSiren® allowing you to collect and send wireless DO readings to the cloud for further analysis.

When the probe is submerged, oxygen molecules start to diffuse through the probe's polyethylene membrane at a constant rate. The molecules get reduced at the pure silver cathode and produce a small voltage which is then converted to a DO reading.

thered up to 343 meters with an ıg/L.



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~18 Months

5 Years +

Max Pressure:	3,447 kPA (500 PSI)	Readings can be gath
Accuracy:	+/- 0.05 mg/L	accuracy of ±0.05 mg
Operating Voltage:	3.3V - 5V	
Temp. Compensation	Yes	Г
Range:	0.01 -100+ mg/L 0.1 - 400+ %saturation	
Cable:	1 Meter	
Data Protocol:	UART and I ² C	
Response Time:	1 Reading Per Second	114mm
Data Format:	ASCII	(4.48")
Temperature Range °C:	1°C to 50°C	
Internal Temp. Sensor:	No	

Technical Specifications:

343 meters (1,125 ft)

Max Depth:

Life

Maintenance:

Expectancy:



Technical Specifications:

Dimensions:	6mm x 81cm (0.2" x 32")
Probe Type:	Class A Platinum, RTD
Sensing Material:	304 SS
Connector:	Male BNC
Range:	-200°C - 850°C
Accuracy:	+/- (0.15°C + 0.002 x °C)
Resolution:	0.001
Response Time:	1 Second Reading
Temperature Output:	°C, °K, °F
Cable Length:	81cm
Min/Max Cable Temp:	-55°C/125°C
Operating Voltage:	3.3V - 5V
Data Format:	ASCII

Temperature Sensor Product Specification Sheet

Fully Submersible

High Range Reads Temperatures as Low as -200°C and as High as 850°C.

Cable can be extended up to 300 meters.

Platinum Resistance Thermometer

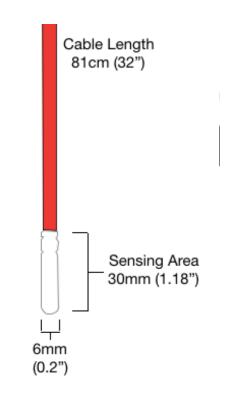
High Accuracy +/- (0.15 + (0.002*t))

TEMP

High range sensor measures from -200°C to 850°C. Measure the toughest of environmental conditions.

High resolution of 0.001°C make this sensor versatile in the lab, field, soil, industrial and wastewater applications. The cable can be extended up to 300 meters and reads temperatures as low as -200°C and as high as 850°C.

Digital processing sends stable readings to the wireless RTU allowing for accurate data with every sample collected.



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Technical Specifications:

Body Material:	Rugged PVC
Accuracy:	+/- 0.1% Measurement Accuracy
Beam Angle:	8° Conical
Operating Voltage:	12V DC
Temp. Compensation	Yes
Resolution:	11 Bit
Range:	Dead-Band: 8in (200mm) Maximum Range: 20ft (6m)
Response Time:	60 mS
Sampling Rate:	10 Samples Per Second
Temperature Range:	-40°C to 70°C
Relative Humidity:	0 to 95%, non-condensing
Enclosure Rating:	IP68
Range Accuracy:	0.01in (0.25 mm) Measuring Resolution
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Industrial Long Range Ultrasonic Level Sensor Product Specification Sheet

Measure Overflow Depths Manholes and CSO Chambers

Pre-Calibrated for Water Level Detection

Long Range Measurement from 8 inches to 20 ft

Submersible Design

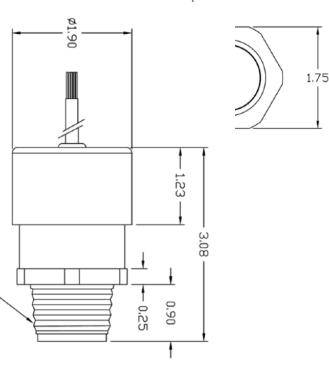
Smart Signal vs Level Detection and Correction when used with Blue Siren Loggers.

Accurately measure from 8 inches (200mm) up to 20ft (6m). Great for ponds, lakes, and manhole monitoring.

Digital output with signal strength information allows the monitor to determine if a reading is good or not. Smart digital processing allows for the elimination of unwanted data commonly associated with non-contact sensors.

All sensors provide precision measurement for wastewater and water flow with non-uniform surfaces by incorporating state-of-the-art transducer technology and processing algorithms.

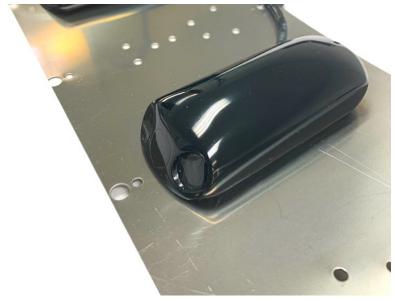
∇ Ø1.90



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P





Pressure:	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 or 1 Hz/sec
Range:	0 to +10m/s (-6m/s optional)
Cable:	7.62m (25ft) Standard
Response Time:	4 digital samples/second
Serial Output:	UART - TTL, RS485, Hz
Baud Rate:	4800
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
Linearity:	+/- 0.15%

AV Flow Sensor DUAL-WAVE Ultrasonic Doppler Velocity

Fully Submersible

Dual-Wave Doppler Technology

Averaging Algorithms Applied

Doppler frequency is proportional to the speed of water in m/s

Dual-Wave Velocity

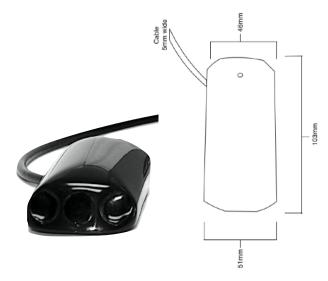
The Blue Siren Dual-Wave Velocity (AV) Sensor uses the Doppler effect to measure velocity using acoustic technology.

This AV sensor contains both pressure-depth and velocity sensors that are highly sensitive and accurate and provide you with data you can count on.

All electronics are encapsulated within the sensor housing.

Velocity is output via serial digital data stream and depth is output via an analog 0-5V signal.

Dual Wave Technology utilizes dual transmitters, filling the flow stream with more sounds waves, reaching a greater acoustic profile.



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BLUE



Technical Specifications:

Pixel Resolution :	2592×1944 (Default), 2048×1536, 1920×1080, 1600×1200, 1280×960, 1024×768, 800×600, VGA, QVGA, 160×120
Sensor:	1/4" 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
White Balance:	Automatic
Operating Temperature:	-4°F-140°F
Sample Rate:	Minimum 1 minute
Auto Gain Control:	Automatic
Exposure:	Automatic

INDUSTRIAL 5MP CAMERA SENSOR Optional VISION Sensor

Infrared LED Camera With Light Detection

Impact Resistant Maximum 5MP resolution Bult-in Compression Encapsulated Electronics

Monitor With Vision®

The Blue Siren® 5MP high output LED Camera Sensor is great for thousands of applications: sewer pipes, grease clogging, inflow and infiltration problems, monitor storm grates and implement camera based infrastructure security.

Automatically store images and send them to any server or website. Subscribe to the BlueLive® Database and see your images as they upload. Sensor readings automatically correlate with image time stamps, allowing more in-depth analysis of system conditions.

The Camera Sensor is constructed using impact resistant urethane and encapsulated using optically clear epoxy. Air is fully vacuumed out of each sensor leaving no room for condensation or moisture.



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DATA MANAGEMENT Wireless Cloud Delivery and Data Analysis

View and Analyze Real Time Data

Automatic Delivery to Hosting Provider of your choice, DropBox®, Google Drive®, FTP, email, BlueLive®

Batch View Line and Scatter Plots

Manage Large Networks

Multiple End Users, No Additional Fees

FLEXIBLE DATA PLAN AND DELIVERY OPTIONS:

Automatically upload monitor data to BlueLive[®], DropBox[®], GoogleDrive[®], email, or a FTP location of your choice. The internal worldwide 4G LTE wireless module supports multiple countries and cellular frequencies. In addition, WiFi connectivity options also available for infrastructure implementation. Provide your own SIM card and cellular network or have Blue Siren provide one for you. Blue Siren has low cost options on major networks such as AT&T[®] and Verizon Wireless[®].



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