



FLOW SIREN

ATEX

INTRINSICALLY SAFE WIRELESS AV FLOWMETER

ATEX - IECEx (Ex II 1G IECEx Ex ia IIB T4 Ga)

DualWave Ultrasonic Doppler Flow Sensors Included

Connect up to 2 AV and 8 Overflow Alarm Switches

Waterproof, Impact Resistant HDPE, UR Enclosure

Alkaline or Rechargeable Battery Pack



* Monitor Shown without Battery Pack

Dimensions:	7 X 7 X 4 in. with bumpers 7 X 7 X 12 in. with Battery Pack and Cage
Weight:	approx. 10 lbs.
Enclosure:	Impact Proof UR, EP materials
Rating:	Fully encapsulated enclosure can be submerged for up to 2 hours under 1m of water
Power:	Logger Input: 3.3V DC Sensor Input: 2V DC Battery Packs
Battery:	Alkaline or Rechargeable Battery Packs Available
Input:	Up to 20 Sensor Channels
Data Storage:	88,000 Samples, 2.5 Years@15 min sample rate
Sampling Rate:	User Defined: 1 Minute Minimum (Standard)
Alarming:	Up to 8 Alarm switches
Wireless:	2G 3G Worldwide Cellular Modem
Software Interface:	FieldSIREN™ Proprietary Field Software (Included free with every purchase.)

Ex - FLOWSiren™

The ExFLOWSiren™ is an intrinsically safe, multi-sensor autonomous wireless monitoring platform designed to work in the harshest conditions.

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

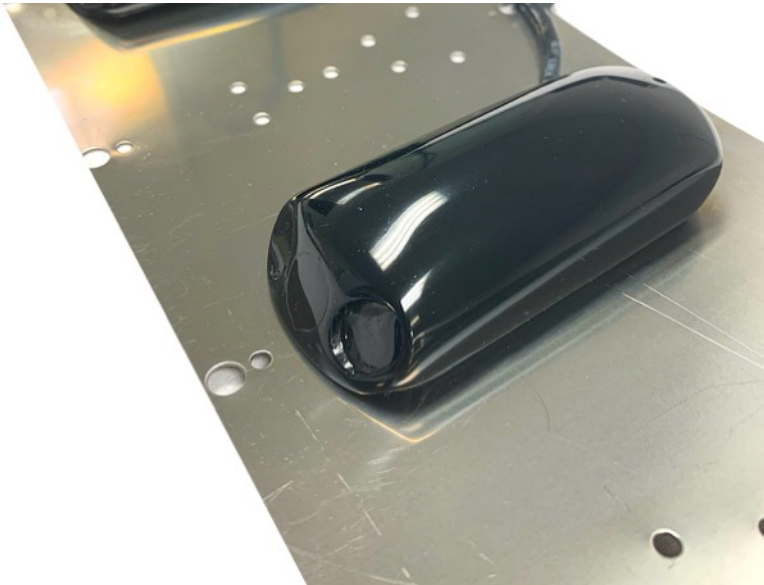
IECEx : Ex ia IIB T4 Ga (Intrinsic Safety 'ia')
Ex : II 1G Ex ia IIB T4 Ga



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Ex-AV Flow Sensor

Intrinsically Safe Dual-Wave Ultrasonic Doppler Velocity Sensor



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.

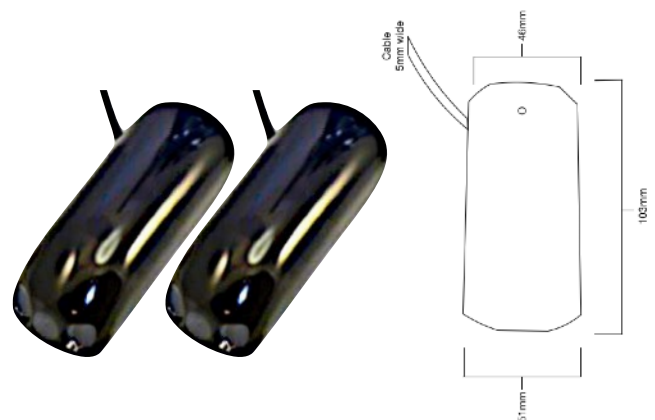
This AV sensor contains both pressure-depth and velocity sensors that are highly sensitive and accurate and provide you with data you can count on.

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 sound waves, reaching a greater acoustic profile.

Pressure:	30ft (10m) 15 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%



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High Level Overflow Alarm and Surge Sensor Product Specification Sheet



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

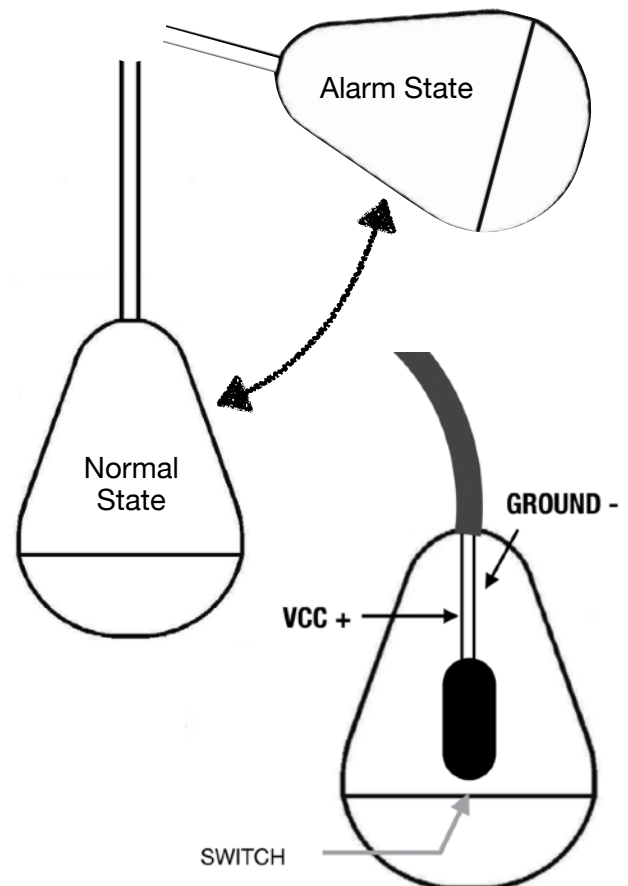
Operating Voltage: 10 AMP - 120V AC
3 AMP - 240V AC

Cable Material: Chlorinated Poly Ethylene

Temperature Range: 32°F to 170°F

Cord Weight: 1.22lbs

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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®.

Graphical Analysis	Line Graph Batch Analysis	Scatter Plot Batch Analysis	Data Export	Wiifit Export	GIS Analytics	Monitor Map	Wireless Report	Alarm Report	Alarm Setup	Email Config	Data Upload	Settings	Site Info
Multi-Layered Line Graphs						Batch Report and ScatterPlots							
GIS, Google Maps, and Spatial Analysis Tools						Image vs Data Correlation and TimeLapse							

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