



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: Internal Dual 12 V D-Cell Alkaline Power Supply

Sample Rate: User Defined, 1 to 60 minutes

Software: Field-Siren Windows GUI, Cloud Programmable

Protocol: Compressed Binary

Wireless: World Wide Cellular: 4G LTE and WiFi

Data Transfer: Blue-Live® - DropBox® - GoogleDrive® - FTP

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®**

## ULTRASONIC DOPPLER FULLPIPE WIRELESS MONITOR

Accurately Monitor Full Pipe Flow Rates

Ultrasonic Doppler Flow Sensor Included

Connect Multiple Sensors, up to 20 Channels

User Replaceable Internal 12V Battery Supply

Lightweight, Portable Compact Design

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 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.

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: Plastic Polycarbonate

Dimensions: 250mm x 48mm x 90mm (electronics +

guide rail)

**Timing** +/-50ps Resolution:

Flow Velocity

Range:

0.1 to 10 m/s

Accuracy: +/-3% of flow reading for velocity rate

>0.3 m/s

Repeatability: +/-0.15% of measured value

Power Input: 12-24V AC or DC

Power

7VA max. Consumption:

Pulse Output: Opto-isolated MOSFET volt free contact

Frequency Mode: 200 Hz max. (Range 1-200)

Max. Load

48V AC / 500mA Voltage/Current:

Current Output: 4 - 20mA

Current

0.1% of full scale Resolution:

Operating Temp

(Electronics):

0°C to 50°C (32°F to 122°F)

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## **Full Pipe Flow Product Specification Sheet**

LCD Display with 2 line 16 characters

4 key tactile feedback membrane keypad

Easy to install

Operates on steel, stainless steel, copper, and plastic

#### **Full Pipe Flow**

The Full-Pipe Flow Sensor sends repetitive ultrasonic waves between its upstream and downstream transducers. The difference between the time it takes for the wave to travel back and forth between the two transducers is directly proportional to the velocity of the fluid traveling through.

When placed on the pipe at a 45° angle the Full-Pipe Flow Sensor allows you to accurately measure industrial, sewage, drinking, and other fluids' velocity.







#### **Technical Specifications:**

Pixel 2592×1944 (Default), 2048×1536, 1920×1080, Resolution:

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 60 degree (default), 120/90/45/30/15/8 degree

(FOV): Optional

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

16mm/25mm Optional

White Automatic Balance:

Operating -4°F-140°F Temperature:

Sample Rate: Minimum 1 minute

Auto Gain Automatic Control:

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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