

# LCD DOPPLER<sup>®</sup>

## WIRELESS FLOWMETER

4G Wireless GSM / GPRS

5" Inch Vibrant graphic LCD Display

IP65 Waterproof Enclosure

Connect Multiple Sensors

External Firmware Port

Wall Mount

Internal SIM Card & Antenna Connection

Area Velocity Port



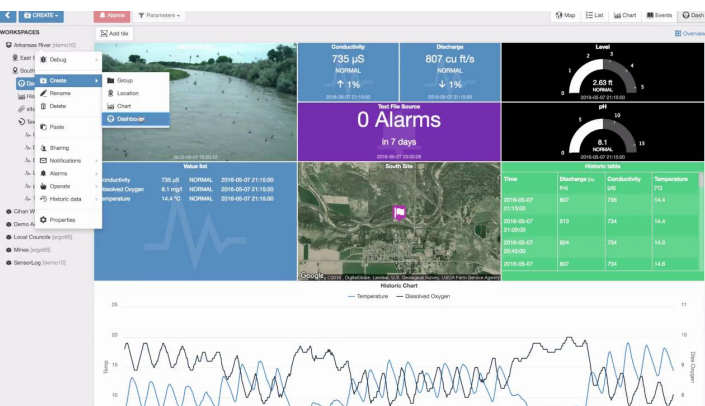
## LCD DOPPLER<sup>®</sup>

Intelligent LCD Doppler wireless flow monitor is reliable and cost effective. It is designed for monitoring open channels and partially full pipes.

The system comes equipped with an auxiliary sensor port to allow to connect a wide range of different types of sensors, such as non-contact ultrasonic level, 4~20mA interface, analogs sensors with 0.5V ~ 4.5V signal outputs. The Velocity sensor port is dedicated for Velocity and Depth measurements. Calculate flow rate and volume based on your application is simple and easy to do.

Permanent / portable wireless monitor is designed to operate with mains power.

Download data manually or transmit data wirelessly to a custom server via FTP. It's easy and simple to do, just Insert SIM Card, configure your network and server settings. Stream Live Data anywhere in the World.



Dimensions: L180mm x W150mm x H60mm

Enclosure: ASA, PC UL 94 materials

Operating Temp: Logger -40°C ~ +85°C

Sample Rate: 0 to 24hr User defined and programmable

Memory Size: 64MB, Sample storage over 500,000 entries Solid State, non-volatile

Supply Voltage: 6V to 12V DC

Connectors: IP68, waterproof connectors

Sensor Ports: User defined, up to 5 channel inputs using 2 connectors

Data Storage: ASCII format

GSM Modem: 4G Wireless Modem

Local communication: 1 TTL RS232 for PC and monitor Communication

Antenna: Internal Antenna connection

LCD: 5" Inch LCD Display

Hardware Alarm Dial Out: High/Low threshold and profile alarms independently programmable on each channel by the end user

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE. ... It is 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



## AV Sense® Ultrasonic Doppler Area - Velocity Sensor

### Velocity Sensor Specification

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- Method: Ultrasonic Doppler
- Range: 0.02m/s to 8.00m/s
- Resolution: 1mm
- Accuracy: 1.5 %
- Operating Temp: -20°C to 80°C
- Min Operating Depth: 40mm
- Sensor Cable: 7.5mm Diameter 10 meters as standard or up to 50 meters upon request
- Dimensions: L x100mm, Wx50mm, Hx27mm

### Depth Sensor Specification

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- Pressure: 5PSI (3.5m) or 15 PSI (10m)
- Measuring Depth: 0 ~ 10 meters
- Burst Pressure: + 100 ft
- Temperature Compensation: -20°C to 80°C
- Waterproof
- Signal output: UART or analog 0.5 to 4.5V
- Resolution: 1mm

### AREA VELOCITY SENSOR WITH HIGH RESOLUTION PRESSURE DEPTH

AV Sense velocity sensor is design to operate in open channels or partially full pipes. The sensor uses ultrasonic doppler based technology to measure the flow of dirt, bubbles and other particles in a flow stream to measure the speed.

The AV Sense sensor comes with a High resolution 15 PSI submersible pressure sensor and has the capabilities of measuring up to 10 meters of water level at 1 mm resolution.

Two types of velocity sensor are available  
1. Area Velocity (Depth sensor included).  
2. Velocity only

No sensor calibration is required in the field, simply install sensor to the bottom of the channel or pipes and start collecting data.

AV Sense is compatible as a standalone system when used with Remote Sense field software. It is also compatible with the following Remote Sense data loggers.

- ❖ Doppler Uno
- ❖ Doppler Lite
- ❖ Doppler Pro



## PH SENSOR

### Specification

- Unit measurement: PH
- Range: 0 to 14
- Response time: 95% 1 sec
- Connector: IP68
- Operating Temp: 1 ~ 99°C
- Resolution: +/- 0.0001
- Sensor Output: TTL UART
- Operating Voltage: 3.3VDC

### Applications

- Wastewater Treatment
- Drinking Water Treatment
- Ponds & Lakes
- Fish Tanks
- Chemicals Processing

## SUBMERSIBLE INDUSTRIAL PH SENSOR

The PH (potential of Hydrogen) sensor measure the levels of acidity or alkalinity of a solution. PH is the unit of measure that describe the degree of acidity or alkalinity from a scale of 0 to 14 range.

When using the PH sensor the glass membrane allows hydrogen ions from the liquid being measured to defuse into the outer layer of the glass, while the large ions remain in the solution. The difference in the concentration of hydrogen ions create a small amount of current, which is proportional to the concentration of hydrogen ions in the liquid being measured.

The PH sensor is rugged and reliable, Low maintenance, and comes with an internal temperature sensor built-in.

The sensor is fully submersible and comes with a water-proof IP68 connector. Calibrating the PH sensor is easy and simple to do with Remote Sense field software.



## Web Platform Software

Cloud delivery and data Management solution

*Analysed Real Time Data*

*Manage Small or Large Network*

*Set Multiple End Users at not extra cost*

*Receive Alarm Notification*



### Monitoring

Track your data in real time and receive instant alerts via email, SMS. Build powerful rules to notify you when critical events occur in your data.



### Graphing

Visualise your data in an interactive, easy to use graphing tool. Plugin-free and works on phones and tablets. Boasts advanced curve fitting functions and a powerful data viewer.



### Reporting

Get the answers you're looking for through customisable summary reports. Easily combine data from multiple locations using a variety of statistical methods.



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**Remote Sense Demo**

- Location 1 (RCC5A)
- Location 3 (RDC10)

**Location map**

**Historic table**

Time	Clamp 1 [On/Off]	Clamp 2 [On/Off]	Clamp 3 [On/Off]	RG 1 (Tips) [Tips]
2017-08-09 19:28:00			0	
2017-08-09 19:27:47			1	
2017-08-09 19:27:39	0			
2017-08-09 19:27:35		0		
2017-08-09 19:27:23		1		

**Battery Voltage 2**

3.54 Volts  
NORMAL  
2017-08-10 00:57:00

**Alarm summary**

0 Alarms  
in 7 days  
2017-08-10 00:07:00

**Standard chart**

Legend: Clamp 1 (Green), Clamp 2 (Purple), Clamp 3 (Orange)

X-axis: 4. Aug, 5. Aug, 6. Aug, 7. Aug, 8. Aug, 9. Aug, 10. Aug