

DOPPLER - PRO

Portable Wireless Flowmeter



Portable DOPPLER[®] - PRO

WIRELESS FLOWMETER

The DOPPLER PRO is Intelligent, Rugged, Compact, Lightweight, powerful wireless flowmeter, offering one stop solution for hundred of applications. The system comes equipped with multiple sensor ports to allow the end user to configure within your application.

The Internal SIM port is easy to setup allowing the end user to easily select the best network.

Designed and Constructed with Impact resistant waterproof case to operate in the harshest environments, all electronics are fully encapsulated to protect them from moisture or water ingression.

Collect critical data and transmit with confidence to any custom server via FTP. Receive alarm notifications acknowledging the severity of your site.



◆ Multiple Sensor Connections

◆ Hook Clips for easy installation mount.

◆ Tough POWER-CLAW Latching system, is designed to keep your case closed during the toughest applications.



Multiple Applications - one system



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ULTRASONIC NON-CONTACT LEVEL SENSOR



10 METER RANGE LOW POWER ULTRASONIC NON-CONTACT LEVEL SENSOR

This ultrasonic Sensor provides very short to long distance detection, high resolution measurements and Weather resistant IP69. It comes equipped with 7 meter length cable as standard.

Very low power requirements with wide voltage supply between 2.7 and 5.5 volts. Average current consumption at 3.3v is 2.5mA.

This sensor is excellent for battery based systems wether it is for single or multiple sensor applications.

1mm high resolution can be obtained when using the serial output option. Serial data output is approximately 6 times per second in 1mm resolution.

High output acoustic power combined with continuously variable gain control, real-time background automatic calibration and noise rejection algorithms results in virtually noise free distance readings.

The sensor is designed for industrial use, fully encapsulated and supplied with waterproof cable and connector.



Specification

- Operating Voltage 2.7V to 5.5V
- Resolution of 1 mm
- Operating Temperature -40°C to +65°C
- IP69 Connectors
- Average Current Consumption at 3.3v is 2.5mA
- 5m or 10m Range Sensor Option
- RS232 or TTL Sensor Output

Applications

- Lakes, Rivers & Streams
- Weather Stations
- Tanks Level
- Sewer Overflows
- Weirs & Flumes



NON-CONTACT SURFACE VELOCITY RADAR SENSOR

Specification

- Operating Voltage: 9~16VDC
- Accuracy: 0.03m/s
- Operating Temperature :-30°C to +70°C
- Connector: IP68
- Angle Compensation: 0 to 70 deg
- Size: Diameter 6.7cm & Length 11.8cm
- Distance Range: 0 to 100 meters
- Range: 0.2 to 18 m/s
- Weight: 0.52Kg
- Antenna: Conical Horn
- Microwave Frequency: 34.7GHZ

Applications

- Lakes, Rivers, Streams
- Large open channels
- Sewer pipes

100 METER RANGE NON-CONTACT SURFACE VELOCITY SENSOR

The Radar surface velocity sensor has been designed for non-contact measurements of the surface flow velocity of water.

Non-contact Radar velocity sensor is excellent for monitoring Rivers, lakes, large open channels and sewer pipes where installations for wet sensors are not suitable. Combine the Radar Velocity with a non-contact ultrasonic level sensor to obtain a maintenance free flow installation.

This sensor will measure from 100 meters away, offering a great flexibility to the end user to select the correct location for the installation, simply point the sensor to the flow stream, adjust the sensor between 0 to 70 degree angle and within minutes you will be ready to monitor the speed of water.



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POWERFUL WIRELESS DATA LOGGER OFFER A FLEXIBLE, LOW- POWER, COST EFFECTIVE, WIRELESS DATA MANAGEMENT SOLUTION.

Technical Specification

Dimensions:

L x W x D
231mm x 173mm x 100mm

Weight:

2.2Kg Including battery 12V @ 20Ah

Enclosure:

IP67 Waterproof

Environmental Rating:

Fully Submersible waterproof

Operating Temperature:

-40°C ~ +85°C

Sample Rate:

1minute to 24hr User defined and programmable

Memory Size:

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

Data Storage format:

ASCII format

GSM Wireless Modem:

4G LTE Wireless Modem

Local Communication:

1 TTL RS232 for PC Communication

Antenna Connection:

External

Supply Voltage:

6 to 12V

Clock Accuracy (RTC):

Crystal controlled calendar clock
5 sec +/- total error per week maximum

Connectors:

IP68 Waterproof

Sensor Ports:

User defined, up to 10 channel inputs using 4 connectors

A/D Resolution:

18 bit signed measurements

Battery:

Rechargeable 12V @ 20Ah
Or 12V @ 42Ah

Data Channels:

20 maximum configurable channels with Sensor signals such as 0~5V, 0~12V, 4~20mA

1 x analog dedicated for onboard PCB temperature

1 x analog dedicated for monitoring battery level

Hardware alarms Dial out:

High/Low threshold and profile alarms independently programmable on each channel by the end user

Server Alarms:

User defined equation depending on server & software platform use.

Field software:

Remote Sense Field Software use for configuring the logger



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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.



sales@remote-sense.co.uk

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		

Standard chart

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

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