

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 ingress.

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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AV Sense®

Ultrasonic Doppler Area - Velocity Sensor



Velocity Sensor Specification

- 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

- 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

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REMOTE SENSE



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:

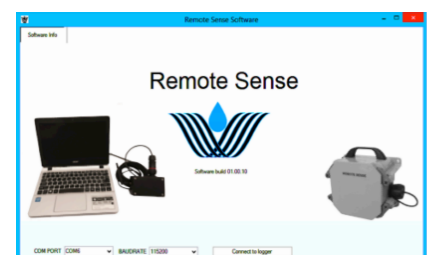
High/Low threshold and profile
alarms independently
programmable on each channel
by the end user

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

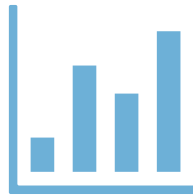
Set Multiple End Users at not extra cost

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.

