



## 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