

# SonicSens 3

## Ultrasonic Level Sensor

SonicSens 3 is an intrinsically safe level sensor developed for use in multiple applications, including sewer level monitoring.

Through the use of ultrasonic technology, SonicSens 3 avoids contact with its environment, reducing contamination and lowering maintenance requirements.

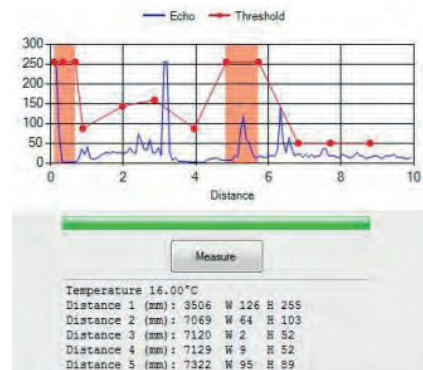
Compatible with multiple HWM telemetry data loggers, SonicSens 3 is the ideal solution for remote and challenging installations.



### Key Features and Benefits

- **Intelligent sensor:** compatible with HWM telemetry data loggers, benefitting from the latest alarm, reporting and dial-in features
- **Intrinsically safe:** certified for use in Zone 0 hazardous areas (visit HWM website for certification details)
- **Dependable:** the logger will send an alarm if measurements are not possible
- **Flexible range:** AutoRanging configuration covering ranges of 150mm-1m, 200mm-3m, 300mm - 6m and 300mm-10m
- **Long battery life:** 5 years at 15 minute sample rate
- **Simple installation:** multiple pre-set options in software, including automatic level/flow conversion
- **Fully waterproof:** unit is rated IP68
- **Power options:** unit powered by logger, external battery pack available to extend system life and support more frequent call-in
- **Unwanted echo filter:** logger can be set up via PC IDT software to ignore unwanted echoes such as ladder rungs, supporting deployment in challenging installation sites

### Unwanted Echo Filtering



### Applications

The sensor capabilities of the SonicSens 3 makes it the ideal sensor in many different applications, including:

- CSO monitoring
- incident prevention, blockage monitoring
- reservoir levels
- combined with velocity sensors for flow monitoring
- level to flow conversion for flumes and weirs

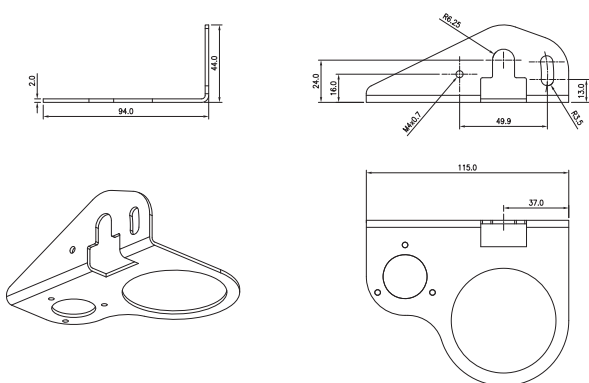
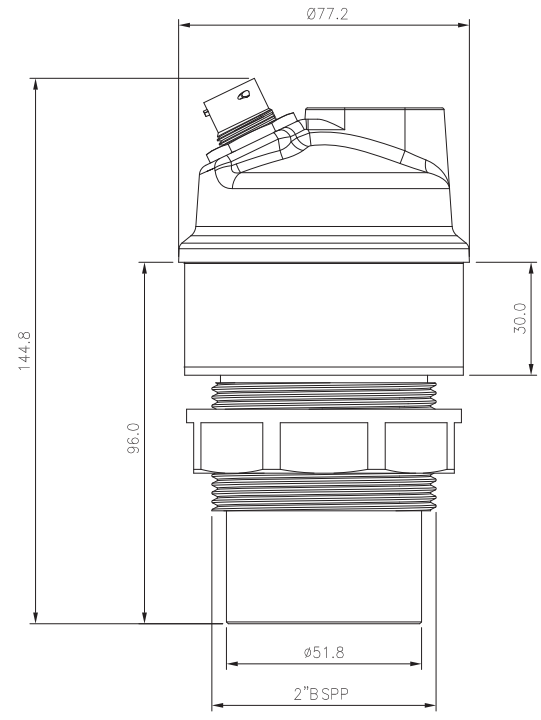
Deployment of SonicSens 3 on complex sites is made possible by the advanced 'unwanted echo' filtering capabilities as well as flexible battery options that extend life and increase dial-in.

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## Ultrasonic Level Sensor

### Ultrasonic Sensor

Ultrasonic Measurement	AutoRanging: 150mm - 1m 200mm - 3m 300mm - 6m 300mm - 10m
	Resolution 1mm (1/25"). Built in temperature compensation
Ultrasonic Measurement	Accuracy in air: ±6mm, @ 1m ±6mm, @ 3m ±5mm, @ 6m ±9mm, @ 10m
	Beam Angle: 10° at -3dB boundary
	Unwanted echo (obstruction) filtering
	Operating Temperature: -20 to +60°C (-5 to +140°F)
Rating	ATEX/IEC certified to Zone 0
Construction	Potted PVDF plastic enclosure, IP68 submersible, stainless steel 316 brackets
Connection	Serial communications, powered from logger
Power Management	>5 years battery life at 15 minute sample rate, Accelerated sampling on alarm available and alarm triggered
Dimensions	145H x 78D (mm)
Weight	700g



### Data Logger

Measurement Interval	Down to 30 seconds
Software	Configurable using PC IDT software
	Configuration of obstruction (unwanted echoes) filtering for difficult installations
Power	Replaceable external power source available



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