SoundSens *i*

Multi-point correlation system

SoundSens *i* is a multi-point correlation system that can accurately identify the position of a leak. Loggers can be deployed during the day but programmed to record overnight giving the best results in noisy environment i.e. Urban. HWM's SoundSens i system has been designed for high performance, versatility and speed of operations.

SoundSens *i* is ideal for both sound logging survey work and accurate pinpointing of leaks via multi-point correlation. Operators can set up and download data without a PC, storing up to a week's survey data for later analysis. Loggers are downloaded via infra-red signal, removing the need for direct physical connection.

Key Features and Benefits

- **No software needed:** User can setup loggers and download data without using a PC.

- **Large memory:** Multiple downloads of data can be stored in the case before needing to download to PC

- **Flexible**: Custom recording setup available

- **Quick:** USB communications with a PC

- **Battery LED:** Indicates when battery is running low

- **Infra-Red**: Wireless connection with loggers

- **Day or night recordingd:** LCD screen with backlight and easy push button interface

- **Pulse interval timing:** Smooths reading of infrequent pulses

- **Long term monitoring:** 5 year battery life

- **Intentive:** Two cases can link together to set up and download

- **Multi-point correlation:** High performance multi point correlation

- **Fully waterproof:** The IP68 rating has been tested at 10m depth over a 24 hour period.

- **Software:** Compatible with Radcom "Soundsens" software

Applications

The correlator pods can find leaks in complex interconnected pipe networks. The advanced digital accelerometer circuits and sophisticated processing provides clean signals. The system can therefore give good performance even in difficult situations.

SoundSens *i* correlator pods are completely water proof, submersible and battery powered. They also require no maintenance for at least five years.
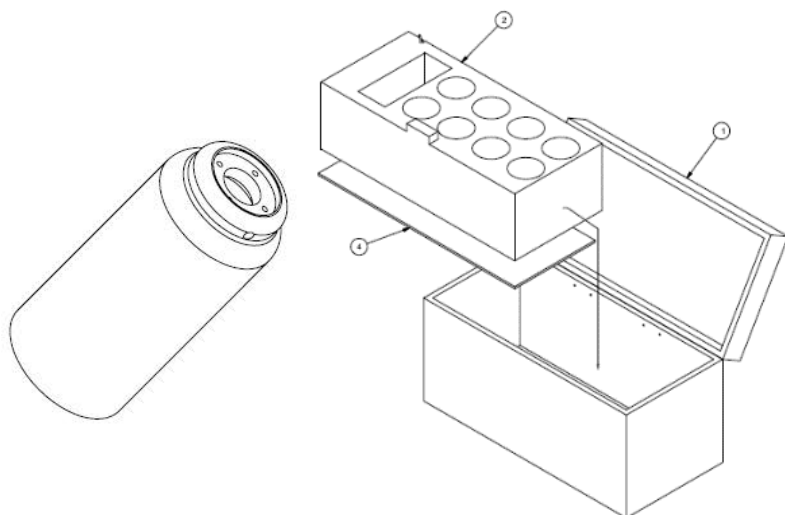
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Sensor Input options

Attachment of logger/ sensor	Internal High Performance Accelerometer to pick up audible noise in pipeline
	Powerful magnetic coupling to attach Correlator Pod to pipework / valve

Communication

Case to PC	Via USB connection to PC for faster download
Case to Pods	Simultaneous communication from case to pod via infra-red
Case to Case	Via 9 pin RS232

Logger Features

Logger ID	Factory set Logger ID number Also user can enter another logger Identity number to simplify recognition for operators
Construction	CPod: Die-cast aluminium enclosure, powdercoat spray painted Carry Case: Rugged construction with Aluminium Cladding
Dimentions	160 H incl Magnet x 55D mm (6.3H x2.10D")
Weight	Correlator Pod: 0.7 kg (1.54 lb)
Operating Temp	-10 to +50°C (14°F to +122°F)
Ingress protection	IP68 submersible
Carry Case	Supplied in 2 - 4 pod case or 6 - 8 pod case (Two cases can be connected together)
Clock	On board 24 hour real time clock with date facility.
Memory	Recording 650,000 readings. (memory expandable to 1.35 million readings on request)
Delayed start	Either start at a nominated time, or after set delay period, e.g.; for unmanned night-time correlation
Power	Correlator pod has Lithium-ion cell operational for 5 years under normal operating conditions Carry Case interface unit contains NiCad battery which typically requires charging monthly or less. 240 /110v switch mode charger supplied in kit with mains lead.
Software	Compatible with Radcom "SoundSens" analysis software

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MONITORING ASSETS, DELIVERING DATA, BRINGING CONTROL