



The Sound Choice
for Leak Detection.™

fluidconservation.com

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PermaNET™ GPS

Multi-Parameter Trunk Main Leak Detection with GPS Time Sync

Logger Features

Frequency	Variable logger sample rate from 1s to 24hrs (this may affect battery life and communication costs)
Construction	PC/ABS plastic enclosure
Operating Temperature	-20 to 60°C (-5 to 140°F)
Ingress Protection	IP68 submersible
Power	Lithium Thionyl-Chloride, typical 5 years (depending on settings and signal condition). External power connection for battery box and DC input
Memory	Primary recording: 1 million readings (non-volatile memory)
Fast logging (secondary channel)	Secondary, fast channel supports sampling up to 100 Hz and record average, minimum, maximum, standard deviation or time interval between pulses (for data smoothing)
Alarms	Multiple alarm options including Rate of Change, Profile, Minimum Night Flow and Threshold. 16 alarms per logger. Can be programmed to auto dial up to 8 telephone numbers on alarm. Over 16 alarms per logger depending on channel configuration
Internal Cellular Modem	Cellular modem supporting 2G/4G/LTE-M (Cat-M1).
Accelerated dial-in	Dial-in rate is increased if alarm situation is triggered. Logger can accelerate dial-in at alarm level for multiple applications - including Flow, Pressure and other alarmed sensors



Hydrophone Specifications

Operating Temperature	-20 to 60°C (-5 to 140°F)
Storage Temperature	-40 to 60°C (-40 to 140°F)
Ingress Protection	IP68
Unit Gross Weight	1.054kg (2lb 3oz)
Safety Tested	to 25Bar
Material: Body	Stainless Steel 316 - DWI regulation 31
Material: Sensor	Araldite DFB/HY951 - BS 6920:2014

Key Features and Benefits

- **Hydrophone 2:** A high-performance hydrophone designed for optimal results on large and non-metallic pipes.
- **GPS Time Synchronization:** Ensures precise correlation, even across long distances and in rural areas.
- **Multi-Parameter Functionality:** Supports flow and pressure measurement, including fast logging for transient events.

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