

PermaNET F

Leak Noise Sensor

Permanet F - PF/LF/.....
Cable - CABA9349/P

The PermaNET system from HWM combines Permalog leak noise sensor and our versatile telemetry data technology to create a fixed network to monitor leakage.

The system works in conjunction with Google Maps technology to provide a live on screen tracking, allowing leakage teams to respond quickly to problem areas and bring them under control efficiently.

Key Features and Benefits

- **Real time data:** Enables leakage teams to respond quickly to specific locations as soon as a leak is detected.
- **Secondary validation:**
 - Aqualog – detailed noise histogram to reduce ‘false positives’.
 - Audio – an operator can remotely listen to the noise.
 - Remote correlation determines leak position.
- **Leak size identification:** By matching daily alarms with flow data to enable leak alerts to be prioritised.
- **Cost effective:** Remote leakage monitoring reduces requirement for site visits.
- **Easy setup:** Remote set up via GPRS and 3G
- **Remote viewing:** Viewing via server hosted software and Permanet Web based viewer
- **Precise Logging:** Ability to log noise more alarms frequently to establish the noise profile and profile for precise immediate leakage alarm.
- **External antennas:** Improve signal strength, increasing reliability.
- **Waterproof:** Fully sealed & submersible, IP68.
- **Latest Technology:** Designed with latest mobile technology to maximise dial in and minimise cost.



Applications

Once installed, leak data is calculated using the proven Permalog algorithm, with all information transmitted via low cost GPRS, 3G or SMS telemetry. This removes the requirement for expensive site visits and “drive by” data retrieval.

PermaNET F allows leakage teams to monitor the status of each logger deployed from map based host software any internet enabled device using Permanet Web.

Once the presence of a leak has been identified, secondary measures can be used to check and remove ‘false positives’, as well as localising leak position.

MONITORING ASSETS, DELIVERING DATA, BRINGING CONTROL

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Noise Sensor



Logger Features

Memory	Primary recording 1 million readings
Alarms	Leak/no leak Signal received/not received
Logger ID	Up to 7 alphanumeric characters. Also readable factory set serial number in firmware
Clock	On board 24 hour real time clock with date facility. Automated synchronization
Dimensions	Logger without antenna: H = 215mm, W = 60mm, D = 60mm
Weight	Logger: 900 grams
Operating Temp	Logger: -20 to +60°C (-5 to +140°F) Leak Noise Sensor: -20 to +60°C (-5 to +140°F)
Ingress protection	IP68 submersible

Sensor Input options

Noise	Permalog LNS Sensor
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Communication

Serial	USB Cable for connection to PDA hand held programming and data collection unit, laptop, or desktop PC using 9600 Baud.
Internal Cellular modem	Quad band modem supplying 850/900/1800/1900MHz bands



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