

Permalog+

Advanced Leak Noise Logger

ENVIRONMENTAL MONITORING
PRESSURE CONTROL
LEAK DETECTION
DATA LOGGING
FLOW MEASUREMENT



KEY BENEFITS

- Flexible deployment options – permanent, semi-permanent or survey (as required by area).
- Responds rapidly to new mains bursts, improving service to customers.
- Automates leak surveying, eliminating human error and finding leaks that would otherwise be missed.
- Completely non-invasive method with no detrimental effects on supply to consumers.
- Loggers can be quickly deployed and used repeatedly with no disruption to the surrounding area.
- Low cost battery replacement and rugged construction enable long term low leakage levels to be maintained easily with minimum maintenance.
- Three year standard warranty.

Permalog® enables water suppliers to quickly and efficiently locate leaks in the water network. Loggers are deployed in areas of the distribution system to provide continuous monitoring of leakage. Easily installed on pipe fittings, they are retained in place by a strong magnet and are powered by low cost replaceable batteries. When a potential leak is detected, the logger enters an alarm state and transmits a radio signal to indicate a "LEAK" condition.

The effectiveness of Permalog® technology has been proven in some of the harshest conditions on earth. Loggers are immersion-tested to IP68 and will continue to operate even in flooded chambers. Water suppliers can monitor 100% of their distribution system confidently and effectively, enabling leakage to be reduced quickly, and easily maintained at a low level.

The new Permalog+ includes 'Aqualog' extended logging functionality, where noise is recorded at preset intervals over an extended period of time. The logger can store up to twenty-nine days of level and spread history and the noise trends identified can then be presented in graph format, enabling the user to distinguish clearly between leak and non leak noise. The highly versatile logger has user changeable plastic/metallic alarm threshold settings and allows data to be accessed via:

- **Lift & Shift** – loggers are removed from the ground and the data is manually retrieved
- **Patroller "Drive By"** - data is transmitted via radio to a moving patrol vehicle using a Patroller system
- **PermaNet** – data is transmitted directly to an office computer via radio network or SMS repeater.



For more information call (513) 831-9335
or visit www.fluidconservation.com

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Specification	Permalog +
Dimensions (with aerial)	Market Dependant: Varying Sizes for Aerial Used
Dimensions (without aerial) Angle fittings available	Height to Top of TNC: 123mm, width: 50mm width
Weight	700 grams
Type of Battery	Lithium
Battery Life	Typically 5 years depending on mode of operation
IP Rating	IP68
Carrying Handles	Optional Hook Accessory
Parameters	User Programmable



*Full specifications provided on request to Fluid Conservation Systems
FCS reserve the right to change the specification of any product without prior notice.*

Lift & Shift Data Collection

The Permalog+ "Lift & Shift" mode is designed for use in a rapid deployment mode allowing users to distribute loggers into the distribution systems, quickly identify potential areas of leakage and then re-deploy the loggers into another area. Fluid Conservation Systems have introduced a useful accessory to support "Lift & Shift" operations. The new Permalog+ Carry Crate has been designed to safely hold and protect up to 20 loggers during transportation from site to site. The loggers fit snugly into a specially designed foam insert at the bottom of the 25 litre crate, thereby offering peace of mind to the driver and ensuring that the loggers remain fully protected until they are removed from the box to be positioned on the pipe. The crate has four easy grip handles to assist with transportation and each crate can be stacked even with the Permalog aerials still attached. Their depth also ensures that sufficient distance remains between the loggers so that they do not reset whilst in transit. Crate dimensions: l 360mm x w 360mm x h 250mm. Crate Weight when empty: 1.4kg

Drive By (Patroller II) Data Collection

Permalog+ has an improved surveying speed enabling fast radio download of new data, including full noise logging Aqualog graphics where further investigation is required. The drive by version features a new PDA based blue-tooth Patroller (Patroller II) to enable remote multiple logger programming and download.

PermaNet (Radio or SMS Repeater) Collection

As part of a fixed network Permalog+ can be combined with PermaNet network radio, or SMS repeater, to send leak data daily to the office via dedicated web hosted or local software packages. This gives a powerful system for immediate leakage notification and localisation, leak sizing when combined with daily flow data, for the cost effective management of areas with high levels of leakage, or access/security issues.

For more information, please view the FCS Data sheets for Patroller II and PermaNet.

Permalog is a Registered Trademark
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