

# PermaNET SU

## Correlating Telemetry Noise Logger

PermaNET SU is the innovative new correlating noise logger from HWM.

Retaining the industry leading features of the PermaNET+ system, PermaNET SU combines a leak noise sensor and telemetry technology into a compact single unit.

Designed specifically for smaller and more challenging installation areas, PermaNET SU is robust and durable.

PermaNET SU is fully compatible with PermaNET Web, the online data viewing and analysis platform, combining to provide map-based display, GIS interface and full audio and correlation facilities.

### Key Features and Benefits

- **Single compact unit:** combines leak noise sensor and telemetry into a single compact unit
- **Robust and durable:** designed specifically for smaller and more challenging installation areas
- **Quick response:** enables leakage teams to respond quickly to specific locations when a leak is detected
- **Installation confirmation:** daily check to confirm logger orientation; will alarm if a problem is detected
- **Secondary validation:**
  - Aqualog - detailed noise histogram to reduce 'false positives'
  - Audio - remotely listen to the noise
  - Remote correlation to localise leak position
- **Fully waterproof:** the IP68 rating has been tested at 10m depth over a 24 hour period
- **Easy to use:** compatible with the GeoInstaller app and can also be programmed through PermaNET Web
- **PermaNET Web:** software supports
  - Correlation
  - GIS Interface
  - Map view
  - Remote reconfiguration
  - Aqualog
  - Filtering
- **External antennas:** support improved signal strength (contact HWM for more information)



### Applications

Once installed, leak data is calculated using the proven Permalog algorithm, and data is transmitted via low cost GSM telemetry. This removes the requirement for expensive site visits and "drive by" data retrieval.

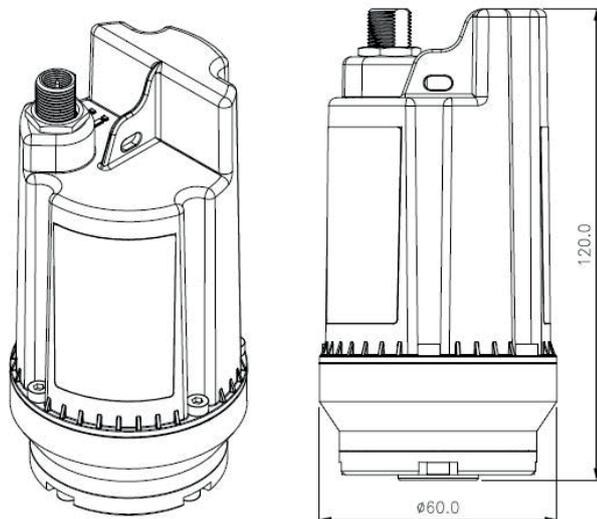
PermaNET SU allows leakage teams to monitor the status of each logger deployed from map based host software using any internet enabled device.

Leaks are identified immediately and once the presence of a leak has been identified, secondary measures can be used to check and remove 'false positives' and also to localise the leak position.

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## Correlating Telemetry Noise Logger

Operating Temperature	-20 to 60°C (-5 to 140°F)
Memory	Primary recording: 1 million readings
Dimensions	Height = 120mm, Diameter = 60mm
Weight	700g
Ingress Protection	IP68 submersible
Antenna	Multiple external options - contact HWM for more information
Battery Life	Typical 5 years (depending on settings and signal condition)
Internal Cellular Modem	Quad band modem supplying 850/900/1800/1900MHz bands
Alarms	Leak/no leak Signal received/not received



## PermaNET Web

### Online Data Portal

PermaNET Web is a secure, web-based portal designed to support the PermaNET product range in the remote identification of network leakage.

Supporting acoustic correlation, leak detection and logger programming, PermaNET Web delivers connectivity with multiple loggers and provides the user with numerous ways to view collected data.



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