

Pressure Transient

Advanced Transient Data Logger

Pressure Transient is an effective high speed pressure transient logging solution for diagnosing critical incidents, protecting network assets, and providing utilities insights to proactively mitigate incidents.

Featuring advanced cellular telemetry and an innovative 'event window selection' the operator can now send transient alarm information and a selectable window of fast logged data before and after the event, or for set time-based windows.

When employed as part of a permanent network monitoring solution, transients can be immediately identified so remedial action can be taken, avoiding bursts and infrastructure damage.



Applications

In addition to pressure transient logging, flow and pressure channels can be added to log other network parameters (Enhanced Network Logging) for comprehensive transient and general network monitoring. Sampling can be operator selected through a wide range of options to 100 samples per second.

The full range of HWM Global external battery packs can be connected to power accelerated dial-in regimes and extended periods of maximum sample rate. These can simply be exchanged on site as required.

Key Features

- **Telemetry:** NBloT/LTE-M based cellular communication as standard with fallback 2G capability.
- **Fast logging capability:** up to 100 times per second, ideal for transient monitoring changes.
- **Event window selection:** select data around transient for transmission.
- **Large memory:** 4 GB internal flash memory enables up to 2 billion readings.
- **Fully waterproof:** the IP68 rating has been tested at 10m depth over a 24 hour period.
- **Long term monitoring:** up to 5 year battery life.
- **External battery packs:** supports accelerated logging and dial-in regimes.
- **Detailed analysis:** specialist software supplied to enable detailed analysis.
- **Flexible:** internal and external sensor options.

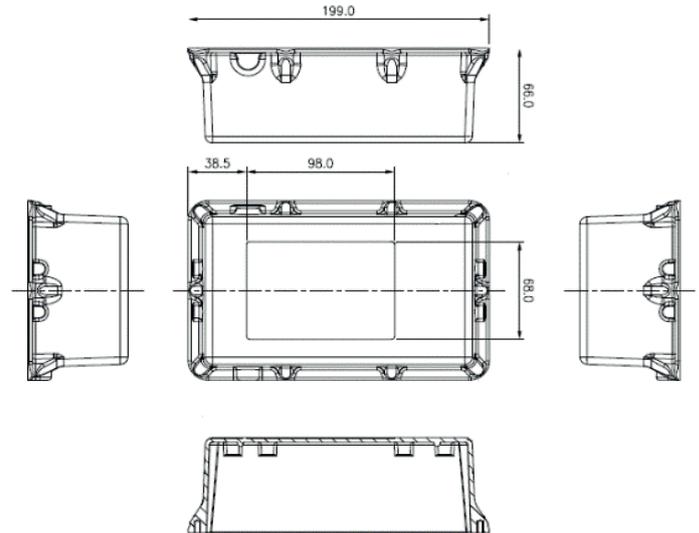


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Specifications

- Frequency:** Standard data logging – 1 sample per second to 1 sample per day.
Fast logging – 1 to 100 samples per second.
- Logger/
Site ID:** Up to 8 alphanumeric characters.
- Clock:** On-board 24 hour real time clock with date facility.
- Dimensions:** 199H x 125W x 66D (mm) – 7.7" x 4.7" x 2.8"
- Construction:** Die-cast aluminium enclosure.
- Weight:** 1.6kg (3.5lb).
- Operating
Temp:** -20 to +70°C (-5 to +160°F).
- Ingress
Protection:** IP68
- Power:** Lithium-Thionyl Chloride cell operational for 1 to 5 years depending on usage.
External power input (+12V or HWM Global battery box).
Battery boxes to support more frequent dial-in and long term accelerated logging.
- Alarms:** Minimum or maximum duration triggered threshold alarm per channel. 16 Alarms per logger.
Each alarm out comment field 16 characters.
User definable threshold transient alarm.
User selected window of data around transient transmitted with alarm.
- Memory:** 4 GB internal flash memory enables up to 2 billion readings.



Input Options

- Analogue:** External Pressure Transducer.
Supplied with quick fit connector.
0-30 bar, accuracy $\pm 0.1\%$

Communication

- USB:** USB 2.0 connection by MIL connector for connection to PC or tablet.
- Internal Cellular Modem:** Cellular modem supporting 2G/3G/NB-IoT/LTE-M (Cat-1) with SMS backup where available - contact HWM Global for available options

Impress

External Pressure Transient Transducer

The Impress Pressure Transient Transducer is an industrial pressure transmitter with a piezo-resistant ceramic pressure sensor.

The construction gives it excellent media compatibility with a stainless steel housing and sealing O ring to ensure the product is suitable for a wide range of applications.

