





Pressure Transient

Transient Data Logger



MONITORING ASSETS, DELIVERING DATA, BRINGING CONTROL





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Pressure Transient is a highly-versatile data logger designed for effective network transient logging.

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.

Transient logging is no longer a purely survey operation, but can now be part of permanent network monitoring for standard flow and pressure logging. Transients are immediately identified so remedial action can be taken, avoiding bursts and infrastructure damage.



Key Features and Benefits

- Fast logging capability: up to 100 time per second, ideal for transient monitoring changes
- Event window selection: select data around transient for transmission
- **Telemetry:** NBIoT LTE-based cellular communication standard with fallback 2G capability
- Large memory: 4 GB internal flash memory enables up to 2 billion readings
- Fully waterproof: the IP68 rating has be tested at 10m depth over a 24 hour period
- Long-term monitoring: up to 5 years 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



Pressure Transient transmits data through an integral modem with NBIoT / LTE-M (Cat-1) with 2G fallback or 2G as primary technology, as well as other available cellular options.

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 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.

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Sensor Input Options

Standard Logging: 15 min (variable logger sample rate from 1s to 24hrs - this may affect battery life and communication costs.
sient Logging ndary channel) Secondary, fast channel supports sampling up to 100 Hz for transient recording.
er ID 7 alphanumeric characters. Readable factory set serial number in firmware
H = 199mm, W = 125mm, D = 66mm (7.7" x 4.7" x 2.8")
truction Die-cast aluminium enclosure, powder-coat spray painted
ht 1.6kg (3.5lb)
-20 to +60°C (-5 to +140°F)
ess Protection IP68 submersible
Lithium Thionyl-Chloride cell batteries.
Typical 5 years (depending on settings and signal condition), otherwise
er External power connection for battery box and other supplies like 12V/235V power (via PSU) supported for more frequent dial-in and long-term accelerated logging.
4Gb memory enables up to 2 billion readings, records multiple months of data and alarms/events of transients.
Configuration and data/alarms stored in non-volatile memory.
Alarms shared with data memory.



Features



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Alarms

Alarms Features	16 alarms types per logger (can be increased above 16 alarms in certain configurations)
	Alarms can be forwarded to multiple (8+) mobile numbers or via SMS.
	Alarm comment field 16 characters.
	No limits on alarms sent from logger.
	All alarms Time-Stamped within logger before upload to server.
Configurable Data Alarms	Threshold High/Low.
	Rate of Change.
	Profile (Time).
	Minimum Night Flow
	Sensor out of range High/Low alarms.
System Alarms	Local Configuration Alarms.
	2-stage battery alarm (configurable).
	Configuration Corruption Alarm.
	External Power Disconnect Alarm.





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