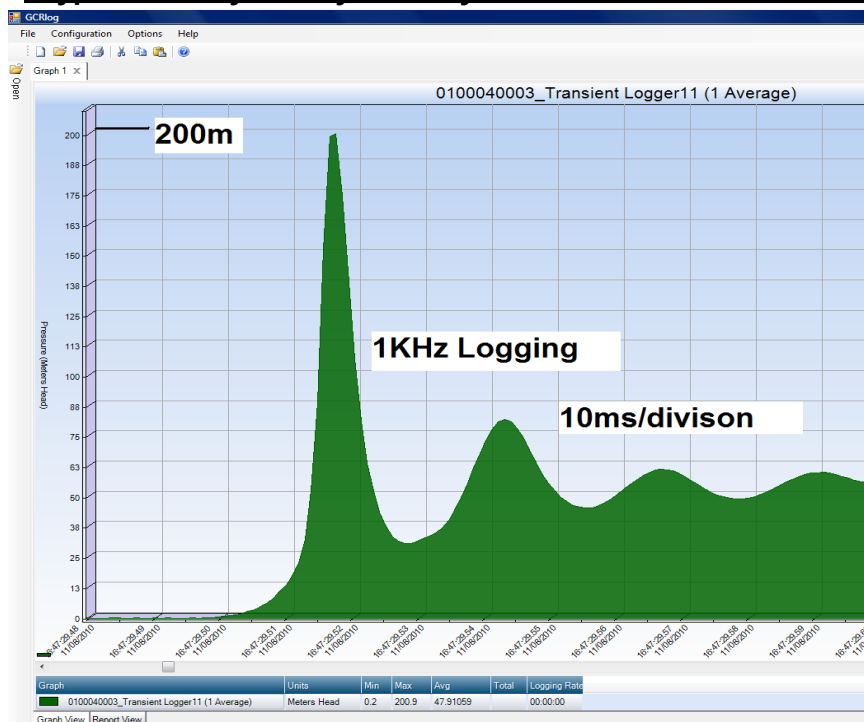# TRANS-P Pressure Transient Logger

- **Two loggers in one. (Slow and High Speed data logging in parallel)**
- **Slow speed: Reading every 1s to 1hour (Avr & Min & Max)**
- **High speed: 10, 20, 100 and 1000 readings/second**
- **Detects and records random pressure surge events**
- **Software selectable trigger modes and threshold levels.**
- **Fixed and Rate of Change threshold settings**
- **1000 samples pre-trigger buffer**
- **1 Million readings (up to 100 surge events)**
- **Non volatile data memory**
- **Fast non-contact IrDA communications link (115,200 baud)**
- **completely waterproof, submersible**
- **Typical battery battery life > 5 years**

200m

1KHz Logging

10ms/divison

0100040003_Transient Logger11 (1 Average)

Graph	Units	Min	Max	Avg	Total	Logging Rate
0100040003_Transient Logger11 (1 Average)	Meters Head	0.2	200.9	47.91059		00:00:00

APPLICATIONS

- **Water Hammer**
- **Pressure monitoring in network**
- **Hydraulic network analysis**
- **PRV Monitoring**
- **Pump Monitoring**
  - ○

TRANS-P Pressure Transient Logger

TRANS-P data logger uses a new data logging architecture that allows the user to monitor pressure input, using main recordings, in terms of average plus minimum/ maximum values where minimum/ maximum values are based on fast sample rate of 100 milliseconds.

TRANS-P Transient logger can **also detect and log pressure surge data up to 1000 readings per second** without interfering with the main recordings.

During threshold logging, the logger checks the pressure signal against the threshold settings 10 times per second and once triggered starts logging data at one of the configured log rate of 10Hz, 20Hz, 100Hz or 1KHz.

The logger software can also be upgraded in the field via the IrDA communications link.

Pressue Input:	20 Bar (Standard) Other options available.
Resolution:	0.1 metre
Accuracuy:	0.25%
Memory:	2-Mbytes - 1 Million readings organised into data files.
Memory Type:	Flash non-volatile memory. Data is retained for 10 years if battery power fails.
Logged data types:	Average, Instantaneous, Minimum, Maximum
Slow & High Speed Modes:	Start/Stop Time Window
High Speed Trigger Modes:	Fixed level and Rate of Change level
Communications:	IrDA – Baud Rate of 115,200 Baud

Physical

Case Dimensions:	112L x 65W x 42D
Construction:	Aluminium enclosure powder coated (IP68 submersible)
Weight:	350g
Operating temperature:	-10 to + 70 degree Celsius (12 to + 160 degree F)