

## INTRODUCTION

**TRITON** range of data loggers use a new data logging architecture that allows the user to monitor pressure inputs in terms of average values based on typical 15 minute logging rate plus Instantaneous/ minimum/ maximum values based on fast sample rates down to 1 second using multiple recordings in parallel. The logger stores data in **non-volatile** flash memory organised into data files. The memory will retain data for 10 years if battery fails.

Pressure signal is converted using a high resolution A/D converter allowing measurement of higher accuracy pressure data suitable for network analysis. Pressure measurement accuracy is further optimised by venting the built in pressure sensor to atmosphere and using multi point calibration. Logged data can be re-calibrated any time by recalibrating the pressure transducer to the logger.

Local communications is via a fast non-contact IrDA communications link (115,200 baud)

**TRI-P** data logger is completely waterproof, submersible and battery powered with a typical battery life of 10 years.

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## APPLICATIONS

**TRI - P** data logger can be used for many water applications, including:

1. Hydraulic network analysis
2. Network Modelling
3. Pressure/PRV monitoring
4. Pressure surge detection
5. Monitor weirs, reservoirs, Bore-hole depth etc.



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## Pressure/Analogue Inputs

TRI-P can accept analogue inputs from transducers including:

Pressure transducers: 1 to 20 Bar (0.1%)

Internal Pressure transducer: Vented to atmosphere

External Pressure transducer: Optional

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## Logging and Communications

**Memory:** 2 M Bytes organised into 8 separate data files of 60000 reading each.

Block or Cyclic – Start/Stop

**Memory Type:** Flash non-volatile memory. Data is retained for 10 years if battery power fails.

**Pressure input:** Mains pressure resolution – Centimetres

**Sampling Rate:** 1 second to 24 hours

**Logging Rate:** 1 second to 24 hours

**Logged data types:** Average, Instantaneous, Minimum, Maximum

**Communications:** IrDA – Baud Rate of 115,200 Baud

## Physical

**Case Dimensions:** 105L x 60W x 55D

**Construction:** Stainless steel enclosure powder coated (IP68 submersible)

**Weight:** 650g

**Operating temperature:** -10 to + 70 degree Celsius (-5 to + 160 degree F)