
INTRODUCTION

TRITON range of data loggers use a new data logging architecture that allows the user to monitor pressure/flow inputs in terms of average values based on typical 15 minute logging rate plus minimum/ maximum values based on fast sample rates.

TRITON range of loggers store data in **non-volatile** memory organised into data files. Each data file is an independent data logger with its own start/stop time, sample rate and logging rate. More than one data file can record different types of data for the same input channel. Different types of data include Average, Instantaneous, Minimum, Maximum etc. The memory register size has been increased to overcome register overflows associated with high pulse rates on Flow inputs.

Pressure measurement accuracy is optimised using multi point calibration. Logged data can be re-calibrated before, during or after the recording by recalibrating the pressure transducer to the logger

Local communications is via a fast non-contact IrDA communications link (115,200 baud). The logger software can also be upgraded in the field via the IrDA communications link.

P-TRITON PF comes in as a single or dual input Pressure/flow logger, completely waterproof, submersible and battery powered with a typical battery life of 10 years.



APPLICATIONS

P-TRITON PF data loggers can be used for many water applications, including:

1. Leakage flow-monitoring
2. Step Testing
3. Pressure/PRV monitoring
4. Rainfall monitoring
5. Pump ON/OFF times
6. Minimum Night Flow analysis.



P-TRITON - PF data Logger

Pressue/Analogue Inputs

TRITON PF can accept analogue inputs from transducers including:

Pressure transducers: 20 Bar

Current inputs: 0-10mA, 4 - 20mA

Voltage inputs: 0-1, 0 – 10V

Digital Inputs

Pulse rate up to 400 pulses per second

P-TRITON PF can operate with many flow meter sensors including ones from.

GCR: Solid State: LP10, HP100

Elster: PSM, MSM, LRP, HRP, BPG20, Q4000

Actaris: Cyble LF, Cyble HF

Sensus: RD01, OPTO 06, OD 07

ABB: MagMaster, AquaProbe, AquaMaster

Quadrina: MPT, MEP, QEP

Logging and Communications

Memory: 1 M Bytes organised into 8 separate data files of 64000 reading each. Block or Cyclic – Start/Stop

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

Logging Rate: 5 second to 24 hours

Logged data types: Average, Instantaneous, Minimum, Maximum

Flow Logging Modes: Count, Pulse Interval Timing

Communications: IrDA – Baud Rate of 115,200 Baud

Physical

Case Dimensions: 87L x 57W x 38D

Construction: Plastic potted (IP68 submersible)

Weight: xxxg

Operating temperature: -20 to + 70 degree Celsius (-5 to + 160 degree F)

Logger range: 1 to 3 channels selectable from 2-Flow and 1- Pressue/Analogue