
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 down to 1 second.

TRITON range of loggers store data in **non-volatile** memory organised into 8 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 time series data for the same input channel. Different types of data include Average, Minimum, and Maximum using COUNT or Pulse Interval Timing (PIT). The memory register size has been increased to overcome register overflows associated with high pulse rates on Flow inputs.

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.

TRITON IF is completely waterproof, submersible and battery powered with a typical battery life of 10 years.



APPLICATIONS

TRITON IF data loggers can be used for many water applications, including:

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



Digital Inputs

Pulse rate up to 400 pulses per second

TRITON ID 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:	2 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.
Sampling Rate:	1 second to 24 hours
Logging Rate:	1 second to 24 hours
Logged data types:	Average, Instantaneous, Minimum, Maximum
Flow Logging Modes:	Count, Event, Pulse Interval Timing
Communications:	IrDA – Baud Rate of 115,200 Baud

Physical

Case Dimensions:	100L x 65W x 50D
Construction:	Stainless steel enclosure powder coated (IP68 submersible)
Weight:	xxxg
Operating temperature:	-20 to + 70 degree Celsius (-5 to + 160 degree F)