

INTRODUCTION

TRITON II GPRS logger has up to 8 inputs for monitoring a range of analogue and digital signals and benefits from the latest advances in GPRS technology.

These loggers use a new data logging architecture that can detect pressure surges and measure minimum night flow more accurately using Pulse Interval Timing. The loggers allow users to analyse data in more details not possible using standard loggers on the market. The new features enable additional fast logging, such as step testing, without interfering with the main 15-minute recordings.

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 logging parameters. 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 loggers use the latest electronics technology that uses lower power resulting in longer battery life.

Typical battery life of logger electronics is 10 years while that of GPRS is more than 5 years.

GPRS communications can be configured to send data down to every xx seconds for real time data display.

APPLICATIONS

- District and Zone monitoring
- Network Modelling
- Pressure surge detection
- Flow & pressure monitoring
- Leakage Detection
- Reservoir / bore hole monitoring



KEY FEATURES

- Integral GPRS modem
- Up to 8-channel logging with up to 2 internal pressure sensors.
- Pressure surge detection
- Accurate minimum Night Flow analysis using PIT
- Advanced alarm reporting functions.
- Options for external GPRS battery pack
- Flash non-volatile memory. Data is retained for 10 years if battery power fails.
- Local data download via a fast non-contact IrDA link (115,200 baud).
- The logger software can also be upgraded in the field over the air or via the local IrDA communications link.



TRITON II GPRS data Logger

PRESSURE / ANALOGUE INPUTS

TRITON II GPRS can accept analogue inputs from transducers including:

Pressure transducers: 1 to 25 Bar
Depth transducers: 0.15, 0.35, 0.7, 1, 2 Bar
Current inputs: 0-10mA, 4 - 20mA
Voltage inputs: 0-1, 0 – 10V

DIGITAL INPUTS

Pulse rate can be up to 400 pulses per second

TRITON II GPRS 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 & COMMUNICATIONS

Memory: 1 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.

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
GSM data, GPRS and SMS

GSM Module: Quad band GSM/GPRS modem (900, 1800, 850 and 1900MHz)

PHYSICAL

Case Dimensions: nnnL x mmW x zzD

Construction: Die-cast aluminium powder coated and painted (IP68 submersible)

Weight: xxxg

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

Standard logger range: 1 to 4 channels selectable from 2-Flow and 2- Pressue/Analogue
Number of physical inputs restricted by size of casing and connectors.