MOBILTEX

GCRTech® PFL1

PORTABLE PRESSURE/FLOW DATA LOGGER
ENGINEERED FOR EXTREME CONDITIONS

GCRTech
a MOBILTEX brand

Product may not ship exactly as shown

ROBUST AND COST EFFECTIVE DATA LOGGER ENGINEERED TO LAST — WATERPROOF AND SUBMERSIBLE WITH LONG-LIFE BATTERY POWER.

The completely updated PFL1 range of data loggers is based on the field-proven design of the PTRI/TRI model and certified for use in North America. The PFL1 utilize our unique data logging architecture that allows the user to monitor pressure/flow inputs in a multitude of configurations providing ultimate flexibility to meet specific application requirements.

The GCRTech PFL1 stores data in non-volatile memory organized 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 is designed to be ready to accommodate overflows associated with high pulse rates on Flow inputs.

Pressure measurement accuracy is optimized 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 via fast non-contact IrDA communications link (115,200 baud). The logger firmware can also be upgraded in the field via the IrDA communications link.

FEATURES OF GCRTECH PFL1

- One to three selectable channel (2 Flow/1 Pressure) Internal & external pressure sensor configs available.

- 2 MB Flash non-volatile memory organized into 6 separate data files - 60000 reading each and 2 separate data files - 250000 readings each

- Data is retained for 10 years if battery power fails

- Configurable Sampling Rate: 1 second to 15 minutes

- Configurable Logging Rate: 5 seconds to 24 hours

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

- Flow Logging Modes: Pulse, Event, Pulse Interval Timing

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

- Completely waterproof and submersible (IP68)

- Battery life > 5 years under normal operation

- Includes GCRLog Lite PC software for programming, downloading & graphing

GCRTECH PFL1 APPLICATIONS:

- LEAKAGE FLOW-MONITORING
- FIRE FLOW TESTING / C-FACTOR TESTING
- PRESSURE/PRV MONITORING
- HYDRAULIC NETWORK ANALYSIS
- CRITICAL WATER USER MONITORING
- PIPELINE CONSTRUCTION PRESSURE LOG
- PRESSURE SURGE DETECTION
- MINIMUM NIGHT FLOW ANALYSIS
- LOW PRESSURE INVESTIGATIONS

PFL1 SPECIFICATIONS

LOGGING | COMMUNICATIONS | DATA:

Memory:	2 MB Flash non-volatile memory organized into 6 separate data files - 60000 reading each and 2 separate data files - 250000 readings each
	Block or Cyclic – Start/Stop
Memory Type:	Flash non-volatile memory. Data is retained for 10 years if battery power fails.
Sampling Rate:	Configurable Sampling Rate: 1 sec - 15 min
Logging Rate:	Configurable Logging Rate: 5 sec - 24 hrs
Logged Data Types:	Average, Instantaneous, Minimum, Maximum
Flow Logging Modes:	Count, Event, Pulse Interval Timing
Communications:	IrDA – Baud Rate of 115,200 Baud
Logger range:	1 to 3 channels selectable from 2-Flow and 1- Pressure/Analogue

ANALOG & DIGITAL INPUTS:

Pressure transducers:	20 Bar / 290 psi Range Standard
Pulse Rate:	Std. 80/second - Max 400/second optional
Flow Meter Sensors:	Compatible with all major meter manufacturers that are equipped with a digital pulse output.

PHYSICAL | POWER | ENVIRONMENTAL:

Plastic Potted Enclosure: PFL1 Model	95mm L x 65 mm W x 40 mm D 3.75' L x 2.5' W x 1.6' D Weight: 0.8 kg / 1.7 lb
Batttery:	>5 years depending on model/settings
Operating Temperature:	-20 to 70 ℃ [-5 to 160 ℉]
Ingress Rating:	IP68 Submersible

ORDERING MATRIX:

PARAMETER	OPTIONS	CODE
Enclosure Type	Potted Plastic	PFL1
External Pressure Transducer	Y	-X
	N	
	Y	-Kit
Flow Input Cable	N	

EXAMPLE :

Portable logger with potted plastic maincase + external pressure transducer + flow input cable

= PFL1-X-Kit

MORE QUESTIONS?
WE'VE GOT ANSWERS!

MOBILTEX