MOBILTEX

FloPath® PFM1-T

TRANSIENT PRESSURE/FLOW DATA LOGGER ENGINEERED FOR EXTREME CONDITIONS

FloPath
a MOBILTEX brand



Product may not ship exactly as shown

TWO DATA LOGGERS IN ONE! CAPTURE PRESSURE AVERAGE AND SURGE DATA IN SEPARATE FILES — WATERPROOF AND SUBMERSIBLE WITH LONG-LIFE BATTERY POWER AND UNIQUE FEATURES THAT FIELD TECHNICANS DEMAND.

The PFM1-T uses a new data logging architecture that allows the user to monitor pressure input in terms of average values based on typical logging rates plus minimum/ maximum values based on fast sampling rates down to 10 samples/second. PFM1-T transient logger can also detect and log pressure surge data up to 1000 readings per second without interfering with the main recordings.

During threshold logging, the logger checks the pressure signal against the threshold settings 10 times per second and once triggered starts logging data at one of the configured log rate of 10Hz, 20Hz, 100Hz or 1KHz.

Pressure surges are logged and surge data plus the slow logged data is sent via cellular communication for the cellular enabled PFM1-T model or downloaded manually using the USB to IrDA communications cable for the non-cellular enabled model.

If external power is connected the logger can sample pressure at 1KHz continuously, detect and record data at 10Hz, 20Hz, 100Hz or 1KHz before during and after the surge event.

FEATURES OF FLOPATH PFM1-T

- Slow and High Speed data logging in parallel:
  High speed: 10, 20, 100 and 1000 readings/second
  Slow speed: 1min to 1hour Average & Min / Max
- Detects and records pressure surge events data : GPRS (2G and 4G/5G - LTE CAT M1 / NB-IoT) cellular models available
- Software selectable trigger modes & threshold levels - detects transients other fast logging data loggers miss!
- Fixed & Rate of Change threshold settings with 20bar transducer capable of recording transients up to 40bar
- 1000 samples pre-trigger buffer
- Able to record several surge events and upload data after each event
- Non volatile data memory (10 years data retention if battery fails)
- Built in programmable LCD display for visual readings
- Fast local non-contact IrDA communications link (115,200 baud)
- Completely waterproof, submersible (IP68)
- Typical battery life > 5 years under normal operation
- External power input for continuous 1KHz sampling

FLOPATH PFM1-T APPLICATIONS:

- WATER HAMMER
- PRESSURE MONITORING IN NETWORK
- HYDRAULIC NETWORK ANALYSIS
- MONITOR PRESSURE RELIEF VALVES
- MONITOR PUMPS
- PIPE FAILURE INVESTIGATIONS
- PIPE CONDITION ASSESSMENT SURVEYS



PFM1-T SPECIFICATIONS

LOGGING | COMMUNICATIONS | DATA:

Pressure Input: Accuracy 0.25%	20 Bar Pressure transducers with 40bar maximum transient capacity (internal or external)
Memory:	2MB memory organized into 4 files with File-4 dedicated to surge events
Memory Type:	Flash non-volatile memory. Data is retained for 10 years if battery power fails
Slow & High Speed Modes:	Start/Stop Time Window
High Speed Trigger Modes:	Fixed level and Rate of Change
Communications:	IrDA – Baud Rate of 115,200 Baud or Cellular 4G/5G LTE CAT M1 / NBIoT, and 2G options
LCD Display:	8-digit user configurable display

PHYSICAL | POWER | ENVIRONMENTAL:

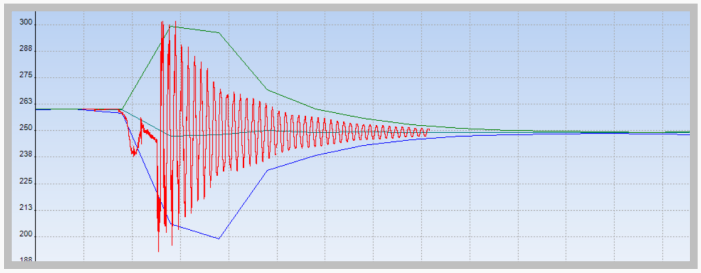
Case Dimensions:	210mm L x 130mm W x 80mm D
Enclosure:	Polycarbonate
Weight:	1.4 kg
Battery:	>5 years depending on model/settings
External Power Input:	Optional -- allows continuous pressure sampling at 1KHz
Operating Temperature:	-20 to 70 °C [-5 to 160 °F]
Ingress Rating:	IP68 Submersible

ORDERING MATRIX:

PARAMETER	OPTIONS	CODE
Enclosure	Polycarbonate	PFM1-T
Pressure Sensor [Select one]	Internal	P
	External (2m/6ft cable length)	Px
Flow [all models]	Single Bi-directional pulse input	F
Cellular Connectivity: [Select one]	4G LTE	LTE
	LTE-M / CAT-M1	M1
	NBIoT	NB
	None	

EXAMPLE :

Transient pressure logger with internal sensor & LTE-M cellular:
= PFM1-T-PF-M1



Authorized Reseller

MOBILTEX-FloPath-PFM1-T-BRO-0225



MORE QUESTIONS?
WE'VE GOT ANSWERS!

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