

Power Transformer Cooler Pump & Fan Monitoring unit.



- Monitors pumps & fans during normal operation and in exercise mode.
- Indicates individual pump and fan failure.
- Can be configured to monitor individual supply phases.
- 18 monitored inputs in 3 configurations for fan only, single stage or dual stage cooling systems. (see ordering requirements)
 - 18 Fan inputs
 - 2 Pump & 16 Fan inputs
- Can be used alongside both Mechanical & Electronic WTIs.
- Universal input power supply.
- Power loss alarm output for power failure.
- LED indication of channel status & alarm output and unit ON/OFF.
- Surface mount case.
- Optional programmable cooler exercising unit available .
- Can be retrofitted to existing installations.
- On site fitting service available
- 5 year warranty available when supplied & installed by Accurate Controls.



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PFM – Watchdog Technical Specification

Configuration :

Inputs: 1– 18 current sensing inputs from monitoring transducers of Pumps, Fans and/or Supply phases.
2 control inputs for operation in single or dual cooling modes.
Pumps & Fans: *Pumps Ch 17 & 18 Fans Ch 1 to 16*
Fans only: *Ch 1 to 18*

Inhibits: Inhibit switches to disable channels not being used, with LED indication.

Outputs: A voltage free alarm contact for any input failure or power loss alarm with LED indication.
LED indication of status of each channel

LED Configuration:

Channel LED Colours:

Green = OK
Red = Error / Fault
Blue = Inhibited / unused Channel
Pink = False Inhibit

Master LED Colours:

Green = OK
Red = Alarm Output

(Refer to Instruction Manual for more information).

Function: Electric current status motoring

Alarm: Volt Free single pole relay
Rated: 250Vac , 6A,
30/110/220Vdc 3A/0.35A/0.2A

Typical Applications :

Pump & Fan Cooler monitoring
Fan only monitoring

Case :

Mounting : Surface mounted
Dimensions: 220mm x 120mm x 90mm
IP rating: IP55
Case Entry : 3 x M25 Stuffing glands

Power :

Supply Voltage: 85 – 264 VAC (47 – 63Hz)
110– 370 VDC
Power supply should be protected with external fuse & link.

Electrical Connections :

2.5mm² terminal block in easily accessed compartment.

Temperature range:

Operating: -25°C to +50°C
Storage: -40°C to +85°C

EMC compliance :

Instrument complies with applicable EMC directives for radiated emissions and susceptibility, conducted emissions, electrical fast transients and electrostatic discharge.

Additional Items:

Transducers: Miniature CT 's fitted as standard with 5 metres of cable. (longer lengths available to order)

Options :

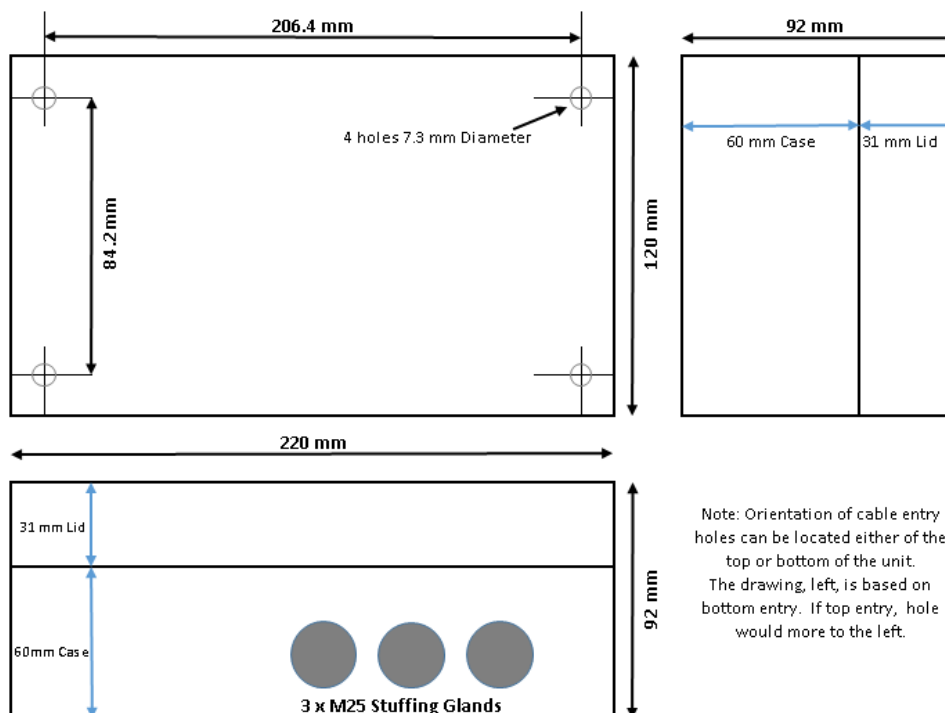
Programmable Exerciser for regular pre-set exercising of pumps & fans, internally installed (See PFE –1 datasheet)

Warranty:

- 1) 12 months return to factory, for supply only.
- 2) 5 years return to factory for instruments supplied and fitted by Accurate Controls Ltd

Ordering:

See page 3 for Part No / Order codes



Full on site installation, calibration and maintenance service available.
Please contact Accurate Controls for technical assistance.

INSTRUMENT SPECIFICATION SHEET

Quotation Request

PFM - Watchdog

PFM-Watchdog *(supply only: 12 months warranty)*

Part No:	Quantity Required:	
Delivery Required:		

Part No.	Configurations without Timer Module	No. of Pumps	No. of Fans
PFM-1-Watchdog	Single Stage cooler	Fans only (max 18) or 2 Pumps & up to 16 Fans	
PFM-2-Watchdog	Dual Stage cooler		
Configurations with PFE-1 Timer Module			
PFM-1T-Watchdog	Single Stage cooler with PFE-1 Exerciser Timer	Fans only (max 18) or 2 Pumps & up to 16 Fans	
PFM-2T-Watchdog	Dual Stage cooler with PFE-1 Exerciser timer		

No. of CT's required	Cable Length	Qty
with standard cable	5.0 metres	
with custom length cable (please specify length required)		

Pre- Programmed (PFE-1 will be programmed prior to delivery)	YES / NO	
Day of Week		
Hour of Day		
Duration of Exercise		

An example program would be : MONDAY 11.00am 20 mins

INSTALLATION BY ACCURATE CONTROLS LTD with a 5 year warranty

Supply & Installation Quotation	YES / NO	
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Please advise address of installation