Intelligent PM4 monitors Model PM4-TR

Rate, Total, Grand Total, Batching. Measures pulses from flowmeters, proximity switches, encoders



Circular graph and 5 digit display



20 segment bargraph and 5 digit display

Features

- Rate/Total/Grand Total selectable via pushbuttons
- Accepts a wide range of input sensor types
- Pushbutton calibration and setup
- Wide range of display options available
- Displays in engineering units
- Electrical isolation between input signal/output/power supply
- 240V, 110V, 32V, 24VAC, 12 to 48VDC or 50 to 110VDC operation (factory configured)
- Transmitter supply selectable 5V , 9V or 18VDC (25mA max.). The 9 and 18V supplies are available on AC powered PM4s only
- Up/down count selectable by an external input
- Alarm/control relay output (5A) setpoint or trailing alarm, programmable for rate or total or total "pass" mode operation
- 2 year manufacturing warranty
- Remote input for special functions including
 - Peak hold or Display hold
 - Fast setpoint access
 - Display brightness control
 - Zero (or reset to a preset value)

Output Options

- Single or dual analog retransmission
- Additional setpoint relays (1, 3 or 6)
- RS232 or RS485 serial communications
- 16 bit digital output (PNP or NPN, factory configured)
- Inbuilt or external datalogger
- Isolated transmitter supply 24VDC (\pm 12VDC)



PM4TR-4.0-0

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Specifications - subject to change without notice

Technical Specifications

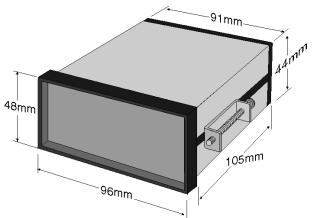
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Input types:	Selectable types include: PNP, NPN, switch contact, magnetic pickup, output from TTL or CMOS, etc	
Impedance:	10hr 112 01 CMO5, etc 10kΩ	
Maximum Count Rate:	100kHz	
Memory Retention:	Battery backed totaliser memory	
Total display reset:	Remote total reset via "RESET" termi-	
	nal, "EXT-IN" terminal or P button	
Microprocessor:	MC68HC11 CMOS	
Ambient temp:	LED models -10° C to 60° C,	
	LCD models -10°C to 50°C	
Humidity:	5% to 95% non condensing	
Display types:	LED models:	С
	4 digit 20mm, 5 digit 14.2mm, status	C
	LEDs, keypad, 6 digit 14.2mm, keypad,	
	8 digit 10mm, keypad, 20 segment LED	
	bargraph, 5 digit display + 4 way key- pad, 16 segment circular "bargraph", 5	
	digit display + 4 way keypad	
	LCD models:	
	4 digit or 6 digit 12.7mm	48
Power supply:	240, 110, 32, 24VAC 50/60Hz,	
	12 to 48VDC or 50 to 110VDC	
P	(factory configured)	
Power usage:	AC supply 4 VA max,	
	DC supply, consult supplier	
Output (standard): Relay action:	1 x relay, form A, rated 5A resistive Programmable N.O. or N.C.	
	0	-
Transmitter supply:	5V, 9V or 18VDC (25mA maximum), note 9 and 18V supplies available on AC	Pa
	powered displays only	
	1 1 7 7	
Output Options		
Extra relays:	1, 3 or 6 extra relays available	
Retransmission:	Analog 4 to 20mA, 0 to 1V or 0 to 10V	Γ
	link selectable (single or dual channel)	
	Serial RS232 or RS485, choice of ASCII or	
	Modbus RTU protocols	_
	Digital Binary or BCD	
DC voltage out:	Isolated 24V (\pm 12V), 25mA	
Data logger:	2MByte internally mounted or external	
Physical Characteristics		
	DB1 40 06 10	

Bezel size:	DIN 48mm x 96mm x 10mm
Case size:	44mm x 91mm x 115mm
	behind face of panel
Panel cut out:	45mm x 92mm (+1mm & -0mm)
Connections:	Plug in screw terminals (max 2.5mm ² wire)
Weight:	400g basic model, 450g with option card

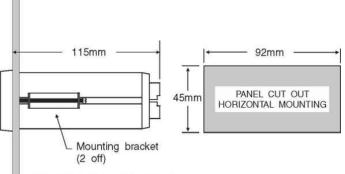
PM4-TR Accessories

Description	Model No.
IP65 access cover	COVER-IP65
IP67 access cover	COVER-PM-IP67
Wall mount enclosure	ENC-PM1-01
Wall mount encl. with IP65 cover	ENC-IP65-PM1-01
Surface mount kit	PM4-OPT-SMKIT
Portable/bench enclosure AC	ENC-PM-AC
Portable/bench enclosure DC	ENC-PM-DC

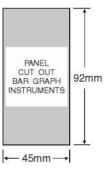
Case dimensions



Panel mounting details



Side view of mounting panel



Wiring diagrams and full operations manual are available from www.aicpl.com.au/pdf/pm4trman.pdf.

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PM4-TR order codes

The last section is for optional outputs, if required. (Note: only one of the optional outputs below can be fitted).

PM4-TR-		
Power supply		
240		
32 32VAC		
24 24VAC		
DC 12-48VDC isolated		
DCH 50-110VDC isolated		
Display type		
4E 4 Digit 20mm red led		
5E 5 digit 14mm red led with front pushbuttons & annunciators		
6E 6 digit 14mm red led with front pushbuttons		
5BP Bargraph with 7.6mm red led and front pushbuttons		
5GP Circular bargraph with 7.6mm red led and front pushbuttons		
4C 4 digit 12.7mm lcd		
4CG 4 digit 12.7mm lcd with backlight 6C 6 digit 12.7mm lcd		
Optional outputs		
R2nd setpoint relay		
R12 2nd setpoint relay and 24V (+/- 12V) isolated transmitter supply		
RRR 2nd, 3rd and 4th setpoint relays		
R6 2nd to 7th setpoint relays (i.e. 6 extra relays)		
12 24V (+/- 12V) isolated transmitter supply		
A Analog retransmission (isolated) AR Analog retransmission (isolated) and 2nd setpoint relay		
ARR Analog retransmission (isolated) and 2nd setpoint relay		
AR12 Analog retransmission (isolated) and Eria, or allo and extra subjoint long of the		
A12 Analog retransmission (isolated) and 24V (+/_ 12V) isolated transmitter supply		
AR6 Analog retransmission (isolated) and 2nd to 7th setpoint relays		
AA Dual analog retransmission (isolated)		
AAR Dual analog retransmission (isolated) and 2nd setpoint relay		
A2 Analog retransmission, 4-20mA only (isolated) and RS232 communications (isolated)		
A2R Analog retransmission, 4-20mA only (isolated), RS232 communications (isolated) and second relay		
A4 Analog retransmission, 4-20mA only (isolated) and RS485 communications (isolated)		
A4R Analog retransmission, 4-20mA only (isolated), RS485 communications (isolated) and second relay 2 RS232 communications (isolated)		
2R		
2R12		
4 RS485 communications (isolated)		
4R RS485 communications (isolated) and 2nd setpoint relay		
4R12 RS485 communications (isolated), 2nd setpoint relay and 24V (+/. 12V) isolated transmitter supply		
DN Digital NPN 16 bit Binary/BCD retransmission		
DNR Digital NPN 16 bit Binary/BCD retransmission and 2nd relay		
DN12 Digital NPN 16 bit Binary/BCD retransmission and 24V (+/- 12V) isolated transmitter supply		
DNR12 Digital NPN 16 bit Binary/BCD retransmission, 2nd relay and 24V (+/- 12V) isolated transmitter supply DP		
DP Digital PNP 16 bit Binary/BCD retransmission DPR Digital PNP 16 bit Binary/BCD retransmission and 2nd relay		
DP12 Digital PNP 16 bit Binary/BCD retransmission and 24V (+/_ 12V) isolated transmitter supply		
DPR12 Digital PNP 16 bit Binary/BCD retransmission, 2nd relay and 24V (+/- 12V) isolated transmitter supply		
ABP Analog retransmission bipolar output (-10V to +10VDC only)		

Applications/input types available with panel mount display models

- Analog input, process transmitters etc. ±20mA, 4-20mA or ±2.5VDC or ±25VDC
- Pulse input, rate, total, count, grand total (encoders, switches, proximity sensors etc.)
- Rate, total from quadrature pulse input
- Liquid conductivity/resistivity/ppm
- pH/Redox (ORP)
- Loop powered displays
- AC current or AC voltage input
- Temperature RTD, thermocouple, 4-20mA
- Weighing 4 or 6 wire mV/V output loadcells
- Pressure measurement 4 or 6 wire mV/V pressure sensors or 4-20mA analog transducers
 Liquid level measurement 4 or 6 wire mV/V pressure sensors or 4-20mA analog transducers
- Serial input RS232, RS485, Serial current loop for slave displays etc.
- Synchronous Serial Interface (SSI) for high accuracy position etc. measurement
- Binary, BCD or Gray Code input
- Real time clock with alarms
 Timer, elapsed time, stopwatch, run time etc.
- Auto/Manual station

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