Intelligent PM4 monitors Model PM4-TMR

Multifunction Timer





4 digit LED 20mm digit height



6 digit LED 14.2mm digit height



4 digit LCD 12.7mm digit height



8 digit LED 10mm digit height



5 digit LED 14.2mm digit height



6 digit LCD 12.7mm digit height

Description

The PM4-TMR is a highly visible and versatile indicator with a selection of display options.

User selectable display formats are:

- Seconds e.g. **232.4**
- Minutes.Seconds e.g. **238.53**
- Minutes e.g. 8472
- Hours.Mins e.g. **1222**
- Hours.Mins.Secs 6 and 8 digit models
 e.g. **08.52.30**
- Hours e.g. **2464**
- Days e.g. **364**
- Days.Hours e.g. **DB. ! !**

The PM4-TMR accepts contact closure or control voltage inputs. The instrument may be used in stopwatch (start, stop, reset inputs) or elapsed time mode (start and reset inputs) and may be set for up or down timing. A scaled period mode of operation allows the display to be scaled i.e. multiplied or divided by a factor. An inverse period mode allows the display to measure inverse time quantities such as velocity. Each instrument is supplied with one control/alarm relay (standard). An external input is configurable to perform one of various functions e.g. zero, setpoint only access or full security lockout of functions.

Features

- Battery backed memory
- Pushbutton calibration and setup
- 240V, 110V, 32V, 24VAC or 12 to 48VDC operation (factory configured)
- Alarm/control relay output (5A) with up to 32 day/time setpoints
- Remote input for special functions including
 - Reset
 - Setpoint Access
 - No Access
 - Display brightness control

Output Options

- Additional setpoint relays (1, 3 or 6)
- RS232 or RS485 serial communications
- Single or dual channel analog retransmission

PM4TMR-3.5-0

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Specifications - subject to change without notice Technical Specifications

Technical Specifications			
Inputs	Contact closure or control voltage input for		
Input Impedance:	start and stop inputs $10k\Omega$		
Memory Retention:	Battery backed memory		
Timer functions:	Period Measurement or scaled period		
	measurement		
Accuracy:	Period Measurement $0.01\% \pm 10$ mS		
Resolution:	0.01 second minimum		
Reset:	Contact closure using Reset or Remote Input terminals or via front P button		
	function setting (on instruments		
	with front buttons)		
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:		
	4 digit 20mm, 5 digit 14.2mm, status LEDs,		
	keypad, 6 digit 14.2mm, keypad, 8 digit 10mm, keypad, 20 segment LED bargraph,		
	5 digit display + 4 way keypad, 16 segment		
	circular "bargraph", 5 digit display + 4 way		
	keypad		
	LCD models:		
	4 digit or 6 digit 12.7mm		
Power supply:	240, 110, 32, 24VAC 50/60Hz,		
	12 to 48VDC or 50 to 110VDC		
D	(factory configured)		
Power usage:	AC supply 4 VA max, DC supply, consult supplier		
Orstaart (staa daad)			
Output (standard): Relay action:	1 x relay, form A, rated 5A resistive Programmable N.O. or N.C.		
Transmitter supply:	5V, 9V or 18VDC (25mA maximum), note 9		
	and 18V supplies available on AC powered		
	displays only		
Output Options			
Output Options	1 3 or 6 extra relays available		
Extra relays:	1, 3 or 6 extra relays available		
Retransmission:	Analog 4 to 20mA, 0 to 1V or 0 to 10V link selectable (single or dual channel)		
	Serial RS232 or RS485, choice of ASCII or		
	Modbus RTU protocols		

Digital Binary or BCD

Isolated 24V (±12V), 25mA

DIN 48mm x 96mm x 10mm

45mm x 92mm (+1mm & -0mm)

44mm x 91mm x 115mm

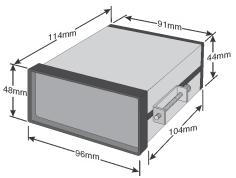
behind face of panel

2MByte internally mounted or external

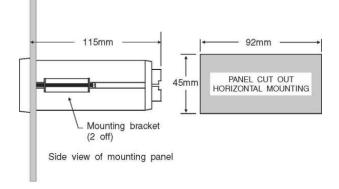
PM4-TMR Accessories

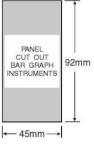
Description	Model No.
IP65 access cover	COVER-IP65
IP67 access cover	COVER-PM-IP67
Wall mount enclosure	ENC-PM1-01
Wall mount encl. with IP65 cover	ENC-IP65-PM1-01
Surface mount kit	PM4-OPT-SMKIT
Portable/bench enclosure AC	ENC-PM-AC
Portable/bench enclosure DC	ENC-PM-DC

Case dimensions



Panel mounting details





Wiring diagrams and full operations manual are available from www.aicpl.com.au/pdf/pm4tmrma.pdf.

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Plug in screw terminals (max 2.5mm² wire)

400g basic model, 450g with option card

Unit 5, 28 Leighton Place Hornsby NSW 2077 Australia

DC voltage out:

Physical Characteristics

Data logger:

Bezel size:

Case size:

Weight:

Panel cut out: Connections:

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PM4-TMR order codes

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

PM4-TMR	
240	- Power supply - 240VAC - 110VAC
32	- 32VAC
24	- 24VAC - 12-48VDC isolated
	- 50-110VDC isolated
	- Display type
	 4 Digit 20mm red led 5 digit 14mm red led with front pushbuttons & annunciators
6E	- 6 digit 14mm red led with front pushbuttons
	- Bargraph with 7.6mm red led and front pushbuttons
	Circular bargraph with 7.6mm red led and front pushbuttons
	4 digit 12.7mm lcd 4 digit 12.7mm lcd with backlight
	- 6 digit 12.7mm lcd
 D	Optional outputs Optional setpoint relay
	2nd setpoint relay and 24V (+/- 12V) isolated transmitter supply
	2nd, 3rd and 4th setpoint relays
R6 -	2nd to 7th setpoint relays (i.e. 6 extra relays)
12 -	24V (+/_ 12V) isolated transmitter supply
	Analog retransmission (isolated)
	Analog retransmission (isolated) and 2nd setpoint relay
	Analog retransmission (isolated) and 2nd, 3rd and 4th setpoint relays
	Analog retransmission (isolated), 210 retay and 24V (7-12V) isolated transmitter supply
	Analog retransmission (isolated) and 2nd to 7th setpoint relays
	Dual analog retransmission (isolated)
AAR -	
	Analog retransmission, 4-20mA only (isolated) and RS232 communications (isolated)
	Analog retransmission, 4-20mA only (isolated), RS232 communications (isolated) and second relay
	Analog retransmission, 4-20mA only (isolated) and RS485 communications (isolated)
A4R - 2 -	Analog retransmission, 4-20mA only (isolated), RS485 communications (isolated) and second relay
	RS232 communications (isolated)
	RS232 communications (isolated), 2nd setpoint relay and 24V (+/_ 12V) isolated transmitter supply
4 -	RS485 communications (isolated)
	RS485 communications (isolated) and 2nd setpoint relay
	RS485 communications (isolated), 2nd setpoint relay and 24V (+/- 12V) isolated transmitter supply
	Digital NPN 16 bit Binary/BCD retransmission
DP -	Digital PNP 16 bit Binary/BCD retransmission

Applications/input types available with panel mount display models

• Analog input, process transmitters etc. \pm 20mA, 4-20mA or \pm 2.5VDC or \pm 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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