Panel Mount Instrument PM5-TMR

Timer displays.

4 digit LED 20mm digit height

4 digit LCD 12.7mm digit height

5 digit LED 14.2mm digit height

6 digit LED 14.2mm digit height

8 digit LED 10mm digit height

6 digit LCD 12.7mm digit height

Features

- Flexible timing operation modes
- Pushbutton programming
- Accepts a wide range of control input sensor types
- Displays seconds or min.sec or hour.min. sec etc depending on display type
- Electrical isolation between input signal/output/power supply
- Rugged construction
- 240V, 110V, 32V, 24V AC or 12 to 48 V DC supply (factory configured)
- Selectable 5, 12 or 18VDC sensor supply
- Remote switch input allows functions including reset, preset, peak hold, display hold etc.
- Up/down count timer modes
- 2 year guarantee
- Wide range of options available including:
  - Single or dual analog retransmission
  - Additional setpoint relays
  - RS232 or RS485 output
  - 16 bit digital output (PNP or NPN factory configured)
  - Ethernet comms.
  - Isolated sensor supply 24VDC ($\pm$12VDC)

Combinations of options are available, see page 3 of this brochure for a full list.

Quality ISO 9001 SAI GLOBAL — Certified System — AUSTRALIAN MADE — AIC — AUSTRALIAN OWNED — EMC COMPLIANT

Specifications

Technical Specifications

Input types:	Selectable to suit most sensor types. The maximum input voltage is 48VDC with appropriate settings
Operation:	Nine operation modes available
Impedance:	1MΩ in normal mode or 12KΩ in attenuated input mode
Microprocessor:	MC68HC12 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 and 4 way keypad. 6 digit 14.2mm and 4 way keypad 8 digit 10.2mm and 4 way keypad 20 segment LED bar graph, 5 digit display and 4 way keypad **LCD models:** 4 digit or 6 digit 12.7mm
Power supply:	240, 110, 48, 32, 24VAC 50/60Hz, 12 to 48VDC or 50 to 110VDC (factory configured)
Sensor supply:	Selectable 5, 12 or 18VDC (25mA max.)
Power usage:	AC supply 4 VA max, DC supply, consult supplier
Output (standard):	1 x relay, form A, rated 5A resistive
Relay action:	Programmable N.O. or N.C. or pass mode

Output Options - see order code section

Physical Characteristics

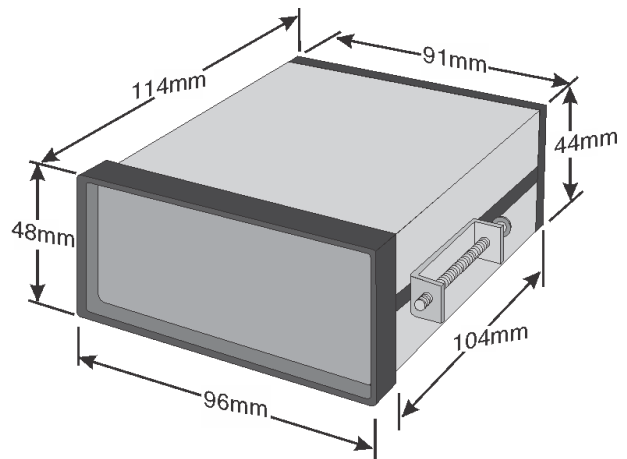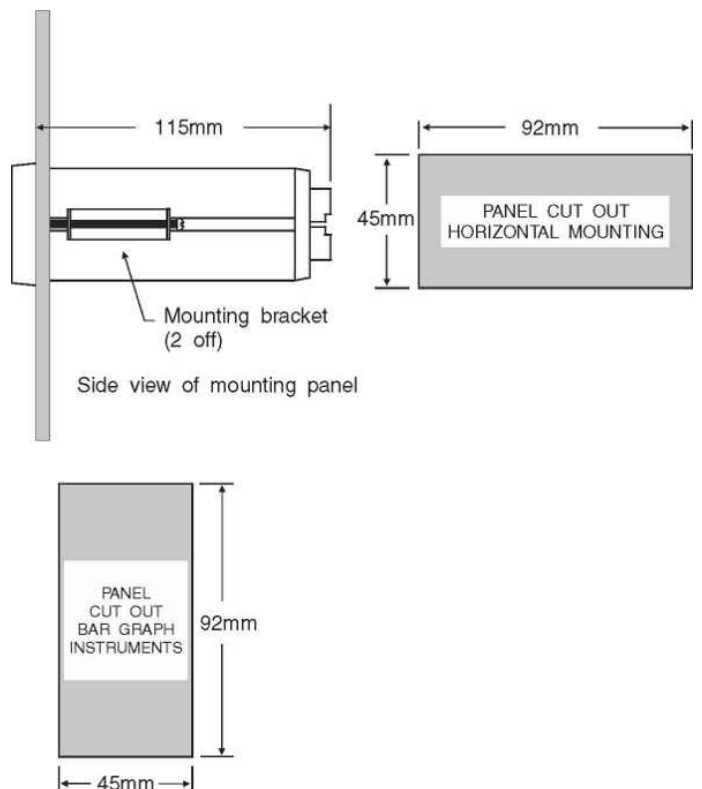|	
Bezel size:	DIN 48mm x 96mm x 10mm
Case size:	44mm x 91mm x 115mm behind face of panel
Panel cut out:	45mm x 92mm (+1mm & -0mm)
Connections:	Plug in screw terminals (max 2.5mm^2 wire)
Weight:	400g basic model, 450g with option card

PM5-TMR Accessories

Description	Model No.
IP67 access cover	COVER-PM-IP67
Wall mount enclosure	ENC-PM1-02
IP65 wall mount encl. with IP67 cover	ENC-PM1-02-IPCOV
Surface mount kit	PM4-OPT-SMKIT
Portable/bench enclosure AC	ENC-PM-AC
Portable/bench enclosure DC	ENC-PM-DC

Case dimensions

114mm 91mm 44mm 48mm 104mm 96mm

Panel mounting details

115mm

45mm

Mounting bracket (2 off)

Side view of mounting panel

92mm

PANEL CUT OUT HORIZONTAL MOUNTING

PANEL CUT OUT BAR GRAPH INSTRUMENTS

92mm

45mm

PM5TMR -1.1-0

Order codes e.g. PM5-TMR-240-5E

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

PM5-TMR- ☐ - ☐ - ☐

Power supply

240	240VAC
110	110VAC
48A	48VAC
32A	32VAC
24A	24VAC
DC	12 to 48VDC isolated

Display type

4E	4 digit 20mm red LED
4C	4 digit 12.7mm LCD
5E	5 digit 14mm red LED with front keypad and alarm annunciators
5BP	5 digit 7.6mm red LED + 20 segment bargraph and alarm annunciators
6E	6 digit 14mm red LED with front keypad
6C	6 digit 12.7mm LCD

Optional outputs

R	One extra relay (form C, 5A @ 240VAC)
RR	Two extra relays (form C, 5A @ 240VAC)
RRR	Three extra relays (form C, 5A @ 240VAC)
R6	Six extra relays (form A 2A @ 240VAC)
R12	One extra relay (form A, 3A @ 240VAC) plus +/- 12V (24V) supply (20mA max.)
I	Isolated 4-20mA retransmission 12 bit
A	Isolated 4-20mA or DCV retransmission 16 bit
IR	Isolated 4-20mA retransmission 12 bit + extra relay (form A, 3A @ 240VAC)
AR	Isolated 4-20mA or DCV retransmission 16 bit + extra relay (form A, 3A @ 240VAC)
*IRRR	Isolated 4-20mA retransmission 12 bit + 3 extra relays (form A, 2A @ 240VAC)
ARRR	Isolated 4-20mA or DCV retransmission 16 bit + 3 extra relays (form A, 2A @ 240VAC)
*IR6	Isolated 4-20mA retransmission 12 bit + 6 extra relays (form A, 2A @ 240VAC)
AR6	Isolated 4-20mA or DCV retransmission 16 bit + 6 extra relays (form A, 2A @ 240VAC)
II	Dual isolated 4-20mA retransmission 12 bit
AA	Dual isolated 4-20mA or DCV retransmission 16 bit
IIR	Dual isolated 4-20mA retransmission 12 bit + extra relay (form A, 3A @ 240VAC)
AAR	Dual isolated 4-20mA or DCV retransmission 16 bit + extra relay (form A, 3A @ 240VAC)
12	+/- 12V (24V) or +/- 5V (10V) supply (20mA max.)
12I	+/- 12V (24V) or +/- 5V (10V) supply (20mA max.) + isolated 4-20mA retransmission 12 bit
12A	+/- 12V (24V) or +/- 5V (10V) supply (20mA max.) + isolated 4-20mA or DCV retransmission 16 bit
12IR	+/- 12V (24V) or +/- 5V (10V) supply (20mA max.) + isolated 4-20mA retransmission 12 bit + extra relay (form A, 3A @ 240VAC)
12AR	+/- 12V (24V) or +/- 5V (10V) supply (20mA max.) + isolated 4-20mA or DCV retransmission 16 bit + extra relay (form A, 3A @ 240VAC)
DP	16 bit PNP digital output with 5/24V excitation
DPR	16 bit PNP digital output with 5/24V excitation plus extra relay (form A, 3A @ 240VAC)
DN	16 bit NPN digital output with 5/24V excitation
DNR	16 bit NPN digital output with 5/24V excitation plus extra relay (form A, 3A @ 240VAC)
2	RS232 comms.
2R	RS232 comms. + 1 extra relay (form A, 3A @ 240VAC)
2RRR	RS232 comms. + 3 extra relays (form A, 2A @ 240VAC)
2R5	RS232 comms. + 5 extra relays (form A, 2A @ 240VAC)
*2I	RS232 comms. + isolated 4-20mA retransmission 12 bit
2A	RS232 comms. + isolated 4-20mA or DCV retransmission 16 bit
*2IR	RS232 comms. + isolated 4-20mA retransmission 12 bit + extra relay (form A, 2A @ 240VAC)
2AR	RS232 comms. + isolated 4-20mA or DCV retransmission 16 bit + extra relay (form A, 2A @ 240VAC)
4	RS485 comms.
4R	RS485 comms. + 1 extra relay (form A, 3A @ 240VAC)
4RRR	RS485 comms. + 3 extra relays (form A, 2A @ 240VAC)
4R5	RS485 comms. + 5 extra relays (form A, 2A @ 240VAC)
*4I	RS485 comms. + isolated 4-20mA retransmission 12 bit
4A	RS485 comms. + isolated 4-20mA or DCV retransmission 16 bit
*4IR	RS485 comms. + isolated 4-20mA retransmission 12 bit + extra relay (form A, 3A @ 240VAC)
4AR	RS485 comms. + isolated 4-20mA or DCV retransmission 16 bit + extra relay (form A, 3A @ 240VAC)
ET	Ethernet comms. + RS232 or RS485 (Power over Ethernet available with PM5 DC supply models)
ETR	Ethernet comms. + RS232 or RS485 + 1 extra relay (form A, 3A @ 240VAC)
ETDL	Ethernet comms. + RS232 or RS485 + 8Mbyte data logger (Power over Ethernet available with PM5 DC supply models)
ETDLR	Ethernet comms. + RS232 or RS485 + 8Mbyte data logger + 1 extra relay (form A, 3A @ 240VAC) (Power over Ethernet available with PM5 DC supply models)

* means not a normal stock item - check availability, minimum order quantity may apply