Panel Mount Instrument PM5-TR

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

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

6 digit LCD 12.7mm digit height

Circular graph
and 5 digit display

20 segment
bargraph and
5 digit display

Features

- Rate/Total/Grand Total selectable via pushbuttons
- Pushbutton programming
- Accepts a wide range of input sensor types
- Displays in engineering units
- Versatile rate scaling options
- 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 selectable by an external input
- 2 year guarantee
- Alarm/control relay output (5A) programmable for rate or total or total "pass" mode operation
- 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.

PM5TR -1.2-0

AMALGAMATED INSTRUMENT CO

ABN: 80 619 963 692

Specifications

Technical Specifications

Input types:	Selectable to suit most sensor types. For inductive, AC and square wave inputs the maximum input voltage is 48VDC or RMS with appropriate settings
Operation:	Rate, total and grand total displays available
Impedance:	$1M\Omega$ in normal mode or $12K\Omega$ 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 16 segment circular "bargraph", 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

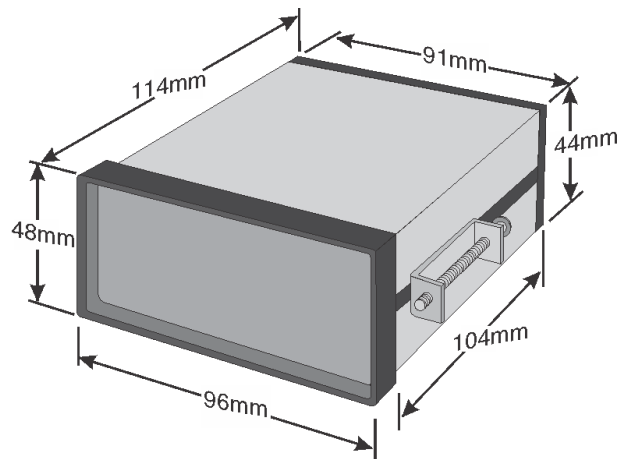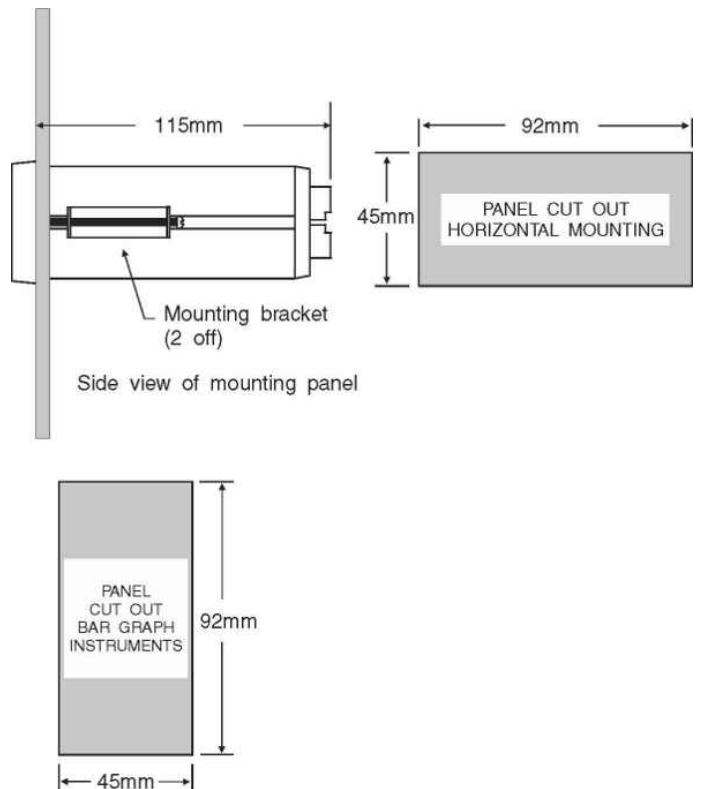|	
Bezel size:	DIN 48mm x 96mm x 10mm
Case size:	44mm x 91mm x 115mm behind face of panel
Panel cut out:	45mm x 92mm (+1mm & -0mm)
Connections:	Plug in screw terminals (max 2.5mm^2 wire)
Weight:	400g basic model, 450g with option card

PM5-TR 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

PM5-TR case dimensions

PM5-TR panel mounting details

Side view of mounting panel

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

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

PM5-TR- ☐ - ☐ - ☐

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