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
 - o RS232 or RS485 output
 - 16 bit digital output (PNP or NPN factory configured)
 - o Ethernet comms.
 - ∘ Isolated sensor supply 24VDC (±12VDC)

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



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 avail-

able

Impedance: $1M\Omega$ in normal mode or $12K\Omega$ in attenu-

ated 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

mod

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 2.5mm²)

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

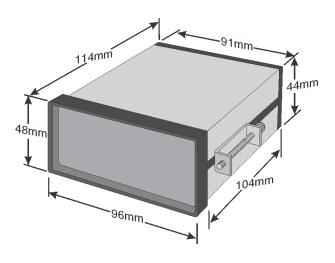
IP65 wall mount encl. ENC-PM1-02-IPCOV

with IP67 cover

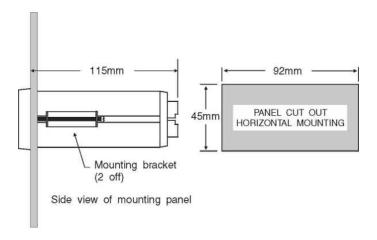
Surface mount kit PM4-OPT-SMKIT

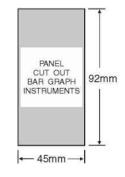
Portable/bench enclosure AC ENC-PM-AC

PM5-TR case dimensions



PM5-TR panel mounting details





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
                              48VAC
48A
                              32VAC
32A
     ----
24A
                              24VAC
DC
                      ----- 12 to 48VDC isolated
                              Display type
                      ---- 4 digit 20mm red LED
                      ----- 4 digit 12.7mm LCD
          4C
                      ---- 5 digit 14mm red LED with front keypad and alarm annunciators
                      5 digit 7.6mm red LED + 20 segment bargraph and alarm annunciators
                      ---- 6 digit 14mm red LED with front keypad
          6E
                      ----- 6 digit 12.7mm LCD
          6C
                                  Optional outputs
                            --- One extra relay (form C, 5A @ 240VAC)
                    RR
                            --- Two extra relays (form C, 5A @ 240VAC)
                    RRR
                            --- Three extra relays (form C, 5A @ 240VAC)
                            --- Six extra relays (form A 2A @ 240VAC)
                    R12
                            --- One extra relay (form A, 3A @ 240VAC) plus +/- 12V (24V) supply (20mA max.)
                            - - - Isolated 4-20mA retransmission 12 bit
                    Α
                             - - - · Isolated 4-20mA or DCV retransmission 16 bit
                            - - - · Isolated 4-20mA retransmission 12 bit + extra relay (form A, 3A @ 240VAC)
                    IR
                    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)
                             --- 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)
                    Ш
                            - - - 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.)
                    121
                            --- +/- 12V (24V) or +/- 5V (10V) supply (20mA max.) + isolated 4-20mA retransmission 12 bit
                            --- +/- 12V (24V) or +/- 5V (10V) supply (20mA max.) + isolated 4-20mA or DCV retransmission 16 bit
                    12A
                    12IR
                             ---- +/- 12V (24V) or +/- 5V (10V) supply (20mA max.) + isolated 4-20mA retransmission 12 bit
                                 + extra relay (form A, 3A @ 240VAC)
                            ---- +/- 12V (24V) or +/- 5V (10V) supply (20mA max.) + isolated 4-20mA or DCV retransmission 16 bit
                    12AR
                                  + 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)
                             --- 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)
                             - - - · 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
                            --- RS232 comms. + isolated 4-20mA or DCV retransmission 16 bit
                    2A
                    *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)
                             - - - · 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)
                    *41
                            --- 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)
                            - - - Ethernet comms. + RS232 or RS485 (Power over Ethernet available with PMS DC supply models)
                    FT
                    ETR
                            ---- Ethernet comms. + RS232 or RS485 + 1 extra relay (form A, 3A @ 240VAC)
                            --- Ethernet comms. + RS232 or RS485 + 8Mbyte data logger
                    ETDL
                                  (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