# Panel Mount Instrument PM5-RS

Models PM5-232, PM5-485, PM5-422, PM5-CL RS232, RS485, RS422 or serial current loop input



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**

- RS232, RS485, RS422 or serial current loop input (factory configured)
- Pushbutton programming
- Alarm relay output configurable for activation on display value or communications failure
- Versatile setup for compatibility with most data sources
- Serial data reduces the risk of electrical noise causing corruption of the signal
- Scanning display from up to 8 suitable channels/inputs
- Rolling average or fixed average of up to 128 values
- Polling output to external unit facility
- Accepts NMEA wind speed and direction data
- 240V, 110V, 32V, 24V AC or 12 to 48 V DC supply (factory configured)
- Remote switch input allows functions including peak hold, display hold etc.
- 2 year guarantee
- Programmable Baud rate, Parity, Decimal point and Data bits (7 or 8)
- Programmable Terminating characters (1-255), Skip characters (0-255) and Alpha enable
- Rugged construction
- Wide range of options available:
  - Single or dual analog retransmission
  - Additional setpoint relays
  - o RS232 or RS485 output
  - 16 bit digital output (PNP or NPN factory configured)
  - Ethernet comms.
  - $\circ$  Isolated sensor supply 24VDC ( $\pm$ 12VDC)



PM5RS-1.2-0

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ABN: 80 619 963 692

# **Specifications**

#### **Technical Specifications**

Input types: RS232,RS485, RS422 or 20mA current

loop (factory configured)

Baud rate: Programmable 300, 600, 1200, 2400, 4800,

9600, 19.2k,38.4k, 57.6k or 115.2k

Microprocessor: MC68HC12 CMOS

Ambient temp: LED models -10°C to 60°C,

LCD models -10°C to  $50^{\circ} \text{C}$ 

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)

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.

#### 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<sup>2</sup>)

wire)

Weight: 400g basic model, 450g with option card

## PM5-RS Accessories

Description Model No.

IP67 access cover COVER-PM-IP67

Wall mount enclosure ENC-PM1-02

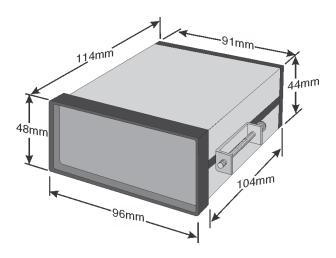
IP65 wall mount encl. ENC-PM1-02-IPCOV

with IP67 cover

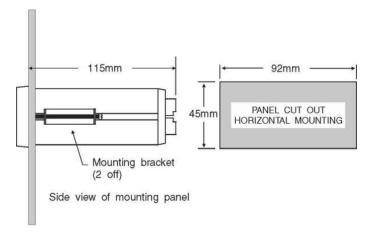
Surface mount kit PM4-OPT-SMKIT

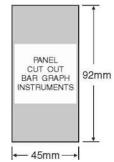
Portable/bench enclosure AC ENC-PM-AC Portable/bench enclosure DC ENC-PM-DC

#### **PM5-RS** case dimensions



PM5-RS panel mounting details





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

```
PM5-
                                           Input type
      232
                                           RS232
      485
                                           RS485
      422
                                           RS422
      CL
                                           Serial current loop
                                               Power supply
                                               240VAC
                 240
                 110
                                               110VAC
                 48A
                                               48VAC
                 32A
                      ----
                                               32VAC
                 24A
                                               24VAC
                 DC
                                               12 to 48VDC isolated
                                               Display type
                                       ---- 4 digit 20mm red LED
                           4E
                                       ----- 4 digit 12.7mm LCD
                           4C
                                               5 digit 14mm red LED with front keypad and alarm anunciators
                          5E
                          5BP ----
                                       ----- 5 digit 7.6mm red LED + 20 segment bargraph and alarm annunciators
                          5GP
                                       ----- 5 digit 7.6mm red LED + 16 segment circular bargraph and alarm annunciators
                                       ---- 6 digit 14mm red LED with front keypad
                          6E
                          6C
                                       ----- 6 digit 12.7mm LCD
                                                  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)
                                    R6
                                             ---- Six extra relays (form A 2A @ 240VAC)
                                             --- One extra relay (form A, 3A @ 240VAC) plus +/- 12V (24V) supply (20mA max.)
                                    R12
                                             - - - · Isolated 4-20mA retransmission 12 bit
                                             - - - · Isolated 4-20mA or DCV retransmission 16 bit
                                    ΙR
                                             ---- Isolated 4-20mA retransmission 12 bit + extra relay (form A, 3A @ 240VAC)
                                             - - - Isolated 4-20mA or DCV retransmission 16 bit + extra relay (form A, 3A @ 240VAC)
                                    AR
                                     *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)
                                             - - - · 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)
                                             ---- +/- 12V (24V) or +/- 5V (10V) supply (20mA max.)
                                    12
                                     121
                                             ---- +/- 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)
                                             --- +/- 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
                                    DN
                                    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)
                                                  RS232 comms. + 5 extra relays (form A, 2A @ 240VAC)
                                    2R5
                                     *21
                                             --- 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
                                             ---- RS485 comms. + isolated 4-20mA or DCV retransmission 16 bit
                                     4A
                                     *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)
                                    FT
                                             - - - · 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)
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<sup>\*</sup> means not a normal stock item - check availability, minimum order quantity may apply