Intelligent PM4 monitors Model PM4-SG



Measures weight, force torque, pressure, level from 4 wire mV/V 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

- Accepts 4 wire mV/V output load cells/strain bridges or pressure sensors
- Accuracy up to 0.01% of full scale
- 10 samples/second sample rate
- 5VDC or 10VDC excitation voltage
- Standard alarm relay, 5A at 240VAC (resistive load)
- Selectable input range in steps 0.5mV/Vto 100mV/V
- Flexible calibration methods
- Configurable visual display warning for over/under values
- Pushbutton calibration and setup
- Ratiometric measurement improves accuracy and stability
- Wide range of display options available
- Display reads in engineering units
- Electrical isolation between input signal/output/power supply
- 240V, 110V, 32V, 24VAC, 12 to 48VDC or 50 to 110VDC operation (factory configured)
- Wide range of output options available including:
 - Analog retransmission
 - Additional setpoint relays
- Remote input for special functions including:
 - o display hold
 - o peak hold
 - max/min memory
 - o tare or zero
- display brightness control
- On models fitted with front panel pushbuttons the
 button may also be programmed to perform the tare, zero, or peak/valley memory special functions

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ABN: 80 619 963 692

Specifications - subject to change without notice

Technical Specifications

Input types: Ratiometric 4-arm strain bridge Input sensitivity: 0.5mV/V to 100mV/V selctable

Excitation voltage: 5V or 10V link selectable (see note below) Bridge resistance: 80Ω to $>2000\Omega$. If bridge resistance is less

than 350Ω (nominal) use 5V excitation

ADC conversion: Up to 20 bit Sigma Delta conversion Accuracy: 0.01% of full scale (alarms & display)

dependant on mV/V range

Sample rate: 10 samples per second 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.

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

(factory configured)

Power usage: AC supply 4 VA max,

DC supply: LED displays 35mA at 24VDC,

LCD displays 20mA at 24VDC

Plus sensor current

Figures are for instruments with no options

fitted.

Output (standard): 1 x relay, form A, rated 5A at 240VAC resis-

tive

Relay action: Programmable N.O. or N.C.

Output Options - see order code for full list

Extra relays: 1 or 3 extra relays available

Retransmission: Analog 4 to 20mA, 0 to 1V or 0 to 10V

(link selectable)

DC voltage out: Isolated 24V ($\pm 12V$), 25mA

Physical Characteristics

Bezel size: DIN 48mm x 96mm x 10mm Case size: 44mm x 91mm x 115mm

behind face of panel

Panel cut out: 45 mm x 92 mm (+1mm & -0mm)

Connections: Plug in screw terminals (max 2.5mm² wire)
Weight: 400g basic model, 450g with option card

PM4-SG Accessories

Description Model No.

IP67 access cover COVER-PM-IP67

Wall mount enclosure ENC-PM1-02

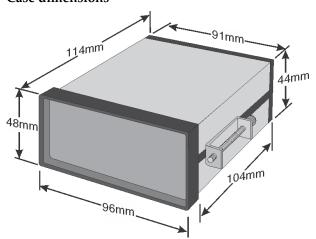
IP65 wall mount encl. ENC-PM1-02-IPCOV

with IP67 cover

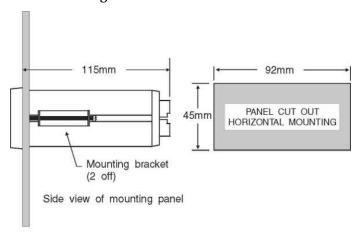
Surface mount kit PM4-OPT-SMKIT

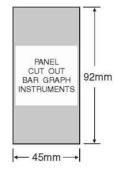
Portable/bench enclosure AC ENC-PM-AC
Portable/bench enclosure DC ENC-PM-DC

Case dimensions



Panel mounting details





Wiring diagrams and full operations manual are available from www.aicpl.com.au/pdf/pm4sgman.pdf.

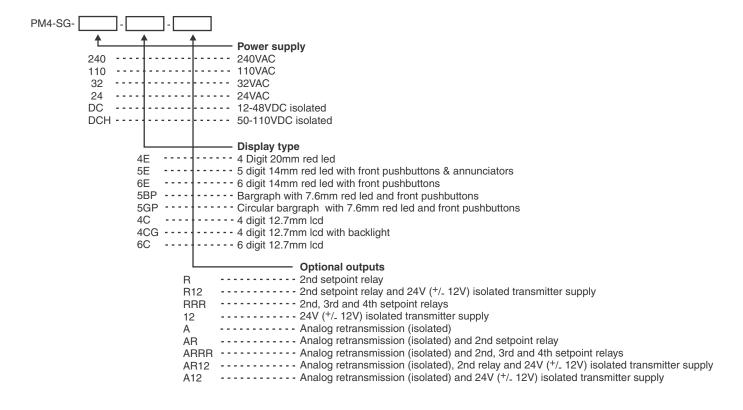
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PM4-SG order codes

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



Other applications available with panel mount displays

- Analog input, process transmitters etc. 4-20mA, 0-1VDC, 0-10VDC, slidewire
- Rate, total, count, grand total from pulse input
- 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
- Auto / Manual station
- Weighing/pressure measurement mV/V ratiometric sensors and loadcells
- Liquid level measurement mV/V ratiometric or analog transducers
- Serial input RS232, RS485, Current loop
- Synchronous Serial Interface (SSI)
- Binary, BCD or Gray Code input
- Real Time clock with alarms
- Timer elapsed time, stopwatch, etc.

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