Panel Mount Instruments PM4-IV for Analog Input



Scalable indication of $\pm 2mA$, $\pm 20mA$, $\pm 100mV$, $\pm 1VDC$, $\pm 10VDC$, $\pm 100VDC$ or Slidewire



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

- Can function as an indicator/controller/ transmitter/computer or PLC interface
- Accepts ± 2 mA, ± 20 mA, 4-20mA, ± 100 mV, ± 1 V, ± 10 V, ± 100 V or slidewire (single input)
- Pushbutton calibration and setup
- Displays in engineering units
- Electrical isolation between input signal/output/power supply
- 240V, 110V, 24VAC, 12-48VDC supply voltage (factory configured) for other variations see specifications (over)
- 18VDC regulated transmitter supply
- Square root extractor selectable
- Alarm/control relay output (5A) configurable as alarm or PI control
- Programmable digital filter improves stability by smoothing out short term interference
- Your choice of front panel measuring unit legend on the front panel e.g. "Litres", "kg" etc.
- 2 year manufacturing warranty
- Wide range of options available including:
 - Single or dual analog retransmission
 - Additional setpoint relays
 - RS232 or RS485 serial communications (ASCII or Modubus RTU)
 - \circ Isolated transmitter supply 24VDC (± 12 VDC) 25mA max.
- Remote input for special functions including
 - display hold
 - peak hold
 - max/min memory
 - o tare or zero
 - display brightness control

PM4IV-4.3-0

ABN: 80 619 963 692

Specifications

Technical Specifications

Input types: Link selectable $\pm 2mA$, $\pm 20mA$, 4-20mA

or DC Volts ± 100 mV, ± 1 V, ± 10 V,

 $\pm 100 V$

or $0-1k\Omega$ to $0-1M\Omega$ 3 wire slidewire

Impedance: 135Ω nominal (mA ranges)

 $1M\Omega$ on DC voltage

ADC resolution: 1 in 20,000

Accuracy: 0.1% of FS when calibrated

0.3% on ± 100 mV and ± 2 mA ranges

Sample rate: 4 per sec

ADC conversion: Dual slope ADC Microprocessor: MC68HC11 CMOS

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

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

Humidity: 5% to 95% non condensing

Display types: **LED models:** 4 digit 20mm,

5 digit 14mm, status LEDs

and 4 way keypad.

6 digit 14mm 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, 32, 24VAC 50/60Hz,

12-48VDC or 50-110VDC

(factory configured) AC supply 4 VA max,

DC supply: LED displays 35mA at

24VDC,

LCD displays 20mA at 24VDC Plus transmitter supply current

Figures are for instruments with no op-

tions fitted.

Output (standard): 1 x relay, form A, rated 5A resistive Transmitter supply: 18VDC (25mA maximum) - standard

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

Output Options - see order code for full list

Extra relays: 1, 3 or 6 extra relays available Retransmission: Analog 4-20mA, 0-1V or 0-10V link

selectable (single or dual channel ver-

sions)

Serial RS232 or RS485, choice of ASCII

or Modbus RTU protocols Digital Binary or BCD

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

Physical Characteristics

Power usage:

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

PM4-IV Accessories

Description Model No.

IP67 access cover COVER-PM-IP67

Wall mount enclosure ENC-PM1-02

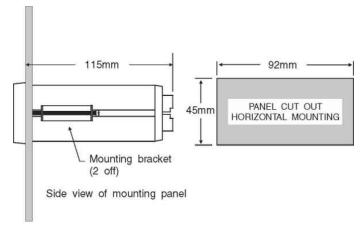
IP65 wall mount encl. ENC-PM1-02-IPCOV

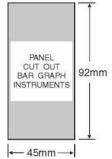
with IP67 cover

Surface mount kit PM4-OPT-SMKIT

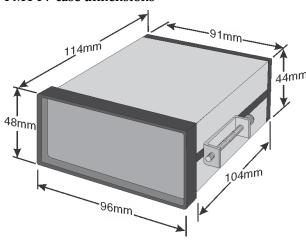
Portable/bench enclosure AC ENC-PM-AC Portable/bench enclosure DC ENC-PM-DC

PM4-IV panel mounting details





PM4-IV case dimensions



Wiring diagrams and full operations manual are available from www.aicpl.com.au/pdf/pm4ivman.pdf.

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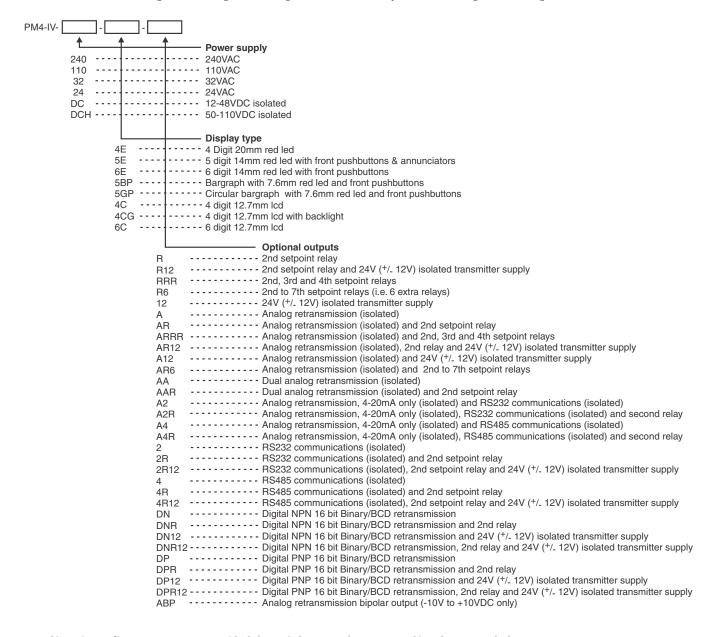
Telephone: +61 2 9476 2244 Facsimile: +61 2 9476 2902

e-mail: sales@aicpl.com.au Internet: www.aicpl.com.au

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PM4-IV order codes

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



Applications/input types available with panel mount display models

- ullet Analog input, process transmitters etc. ± 20 mA, 4-20mA or ± 2.5 VDC or ± 25 VDC
- Pulse input, rate, total, count, grand total (encoders, switches, proximity sensors etc.)
- 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
- Weighing 4 or 6 wire mV/V output loadcells
- Pressure measurement 4 or 6 wire mV/V pressure sensors or 4-20mA analog transducers
- Liquid level measurement 4 or 6 wire mV/V pressure sensors or 4-20mA analog transducers
- Serial input RS232, RS485, Serial current loop for slave displays etc.
- Synchronous Serial Interface (SSI) for high accuracy position etc. measurement
- Binary, BCD or Gray Code input
- Real time clock with alarms
- Timer, elapsed time, stopwatch, run time etc.
- Auto/Manual station

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