# **Panel Mount Instruments**

# PM4-BC - displays from Binary/BCD/Gray code inputs





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



bargraph and 5 digit display

#### **Features**

- Rugged construction
- 240V, 110V, 32V, 24V AC, 12 to 48VDC or 50 to 110VDC supply operation (factory configured)
- Electrical isolation between signal input and power supply
- Decimal point programmable or externally selectable (external operation uses 3 of the available 20 input bits)
- Data input high or low selectable
- Strobe polarity high or low selectable
- Special weighted input display/retransmission mode for up to 8 inputs
- 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

# **BCD** selectable inputs

- Parallel up to 5 digits
- Strobed up to 8 digits
- Addressed up to 8 digits
- Various character displays for non BCD codes

# Binary/Gray inputs

- Parallel up to 20 bits
- Strobed 4 bits plus up to 8 strobe lines

#### Wide range of options available including:

- Alarm relays, 1, 3 or 6 relays (5A at 240VAC)
- Optically isolated analog output 4-20mA, 0-1V or 0-10V (link selectable) - single or dual outputs
- RS232 or RS485 serial communications
- Isolated binary or BCD retransmission

PM4BC-2.3-0

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ABN: 80 619 963 692

# **Specifications**

#### **Technical Specifications**

Input types: BCD parallel, addressed or strobed or

Binary or Gray code parallel or strobed

Signal voltage: Factory configured. Voltage free contact, 5V,

12 to 24V or 48V

Decimal point: User programmable placement or exter-

nally selectable

Data level: Selectable high or low

Wiring: Screw terminals for supply and options

(max 2.5mm<sup>2</sup>)

Push in terminals for signal wires (max

 $1 \text{mm}^2$ )

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 14mm, status LEDs

and 4 way keypad.

6 digit 14mm and 4 way keypad 8 digit 10mm 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)
Power usage: AC supply 4 VA max,

DC supply: LED displays 35mA at 24VDC,

LCD displays 20mA at 24VDC

Figures are for instruments with no options

fitted.

Output Options - see order code for full list

Extra relays: 1, 3 or 6 relays available (only useable in cer-

tain modes)

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

selectable (single or dual channel versions)

(only useable in certain modes)

Serial RS232 or RS485, choice of ASCII or

Modbus RTU protocols Digital Binary or BCD

**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 (+1 mm & -0 mm)

Connections: Plug in screw terminals (max 2.5mm<sup>2</sup> wire)
Weight: 400g basic model, 450g with option card

#### **PM4-BC** Accessories

Description Model No.

IP67 access cover COVER-PM-IP67

Wall mount enclosure ENC-PM1-02

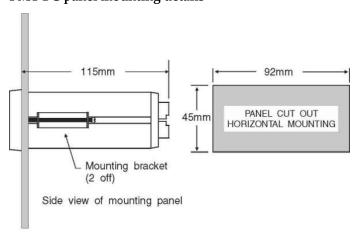
IP65 wall mount encl. ENC-PM1-02-IPCOV

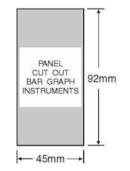
with IP67 cover

Surface mount kit PM4-OPT-SMKIT

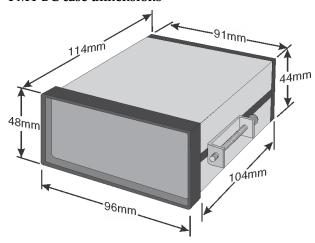
Portable/bench enclosure AC ENC-PM-AC Portable/bench enclosure DC ENC-PM-DC

## PM4-BC panel mounting details





#### PM4-BC case dimensions



Wiring diagrams and full operations manual are available from www.aicpl.com.au/pdf/pm4bcman.pdf.

PM4BC-2.3-0

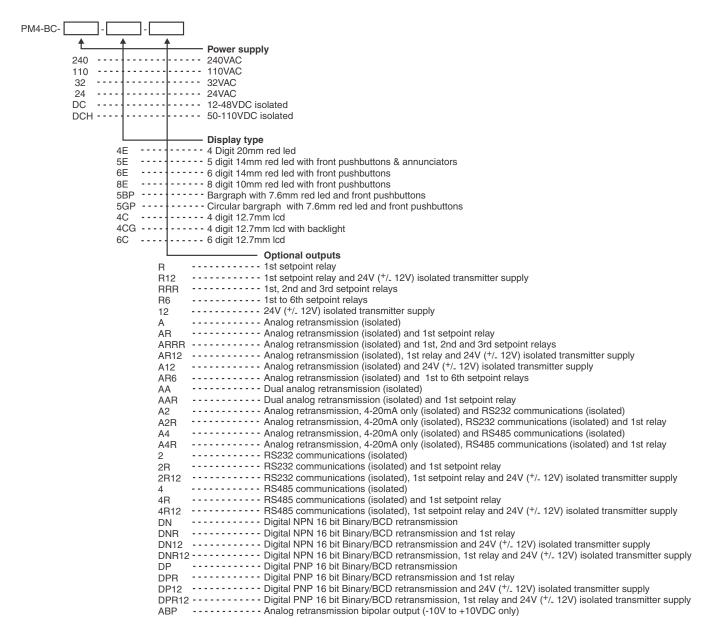
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#### PM4-BC order codes

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

- $\bullet$  Analog input, process transmitters etc.  $\pm 20$ mA, 4-20mA or  $\pm 2.5$ VDC or  $\pm 25$ 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

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- 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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