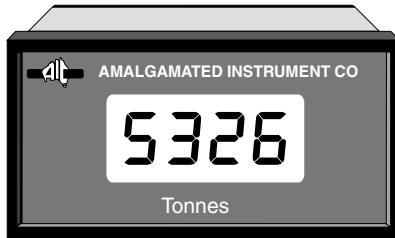


Intelligent PM4 Monitors Model PM4-RS

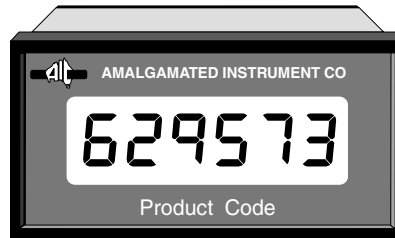
RS232, RS485, RS422 or serial current loop inputs



We offer a wide choice of displays and front panel legends:



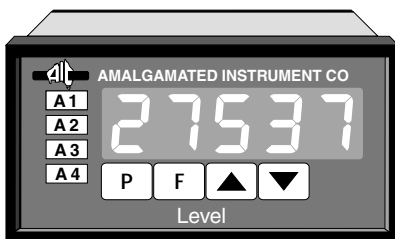
12.7mm LCD 4 digit



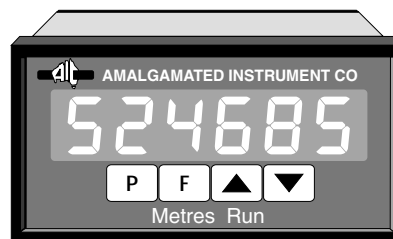
12.7mm LCD 6 digit



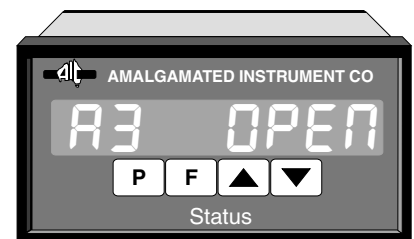
20mm LED 4 digit



14.2mm LED 5 digit plus
keypad and alarm LEDs



14.2mm LED 6 digit
plus keypad



10mm LED 8 digit plus keypad

Description

The AIC Model PM4-RS provides the versatility and flexibility needed to interface with a wide range of serial data types. The PM4 contains flexible function settings which allow it to accept and display data from a wide variety of serial data sources. Baud rate, parity, data bits and other parameters are easily set up by the user via the instruments pushbuttons using the "on display" easy to follow message prompts.

One alarm relay is provided as standard, up to six extra relays can be optionally provided. Other options include isolated retransmission which allow the instruments to retransmit as a serial (RS232 or RS485 with choice of ASCII or Modbus RTU protocols) or analog (4-20mA, 0-1V or 0-10VDC) signal. The retransmission option allows the PM4-RS to be used as a serial to serial or serial to analog converter with display.

An alpha character feature allows certain alpha characters to be displayed. This feature is ideal for displaying special messages (e.g. **HELP**, **OPEN**, **CLOSE** etc.). The PM4-RS is also capable of transmitting a polling command of up to 8 characters to request data from another instrument.

The PM4-RS is ideal for interfacing to computers and other serial data sources where remote or multiple displays are required.

Features

- RS232, RS485, RS422 or serial current loop input (factory configured) selectable as ASCII or Modbus RTU protocol
- Pushbutton programming
- Alarm relay output
- Serial data reduces the risk of electrical noise causing corruption of the signal
- Rugged construction
- 240V, 110V, 32V, 24V AC, 12 to 48 V DC or 50 to 110 V DC operation (factory configured)
- Polling output facility
- 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

Output Options

- Extra setpoint relays
- Optional retransmission provides analog output, 4-20, 0-1V or 0-10V (single or dual channel versions) or serial output, RS232 or RS485 with choice of ASCII or Modbus RTU protocols

SPECIFICATIONS

Specifications are subject to change without notice

TECHNICAL SPECIFICATIONS

- Input types: RS232, RS485, RS422 or 20mA current loop (factory configured) selectable as ASCII or Modbus
- Baud rate: Programmable 300, 600, 1200, 2400, 4800, 9600 or 19.2
- Microprocessor: MC68HC11 CMOS
- Ambient temp: LED models -10 to 60°C, LCD models -10 to 50°C
- Humidity: 5 to 95% non condensing
- Display types: **LED models:**
4 digit 20mm, 5 digit 14.2mm + status LEDs + 4 way keypad.
6 digit 14.2mm + 4 way keypad
8 digit 10mm + 4 way keypad
LED bargraph 20 segment bar + 5 digit 7.6mm + 4 way keypad
LCD models:
4 digit 12.7mm, 6 digit 12.7mm
- Power supply: AC 240V, 110V, 32V, 24V AC
12 to 48 V DC or 50 to 110 V DC operation (factory configured)
- Power usage: AC supply 4VA max, DC supply, consult supplier (depends on display type & options)
- Output (standard): 1 x relay, form A, rated 5A resistive
- Relay action: Programmable N.O. or N.C.

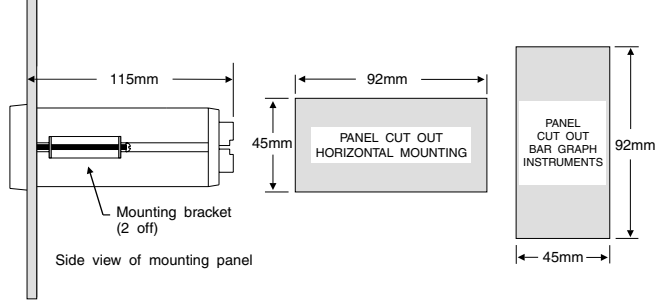
OUTPUT OPTIONS

- Extra relays: Same specs as relay 1 (form C optional)
- Retransmission: **Analog** 4 to 20mA, 0 to 1V and 0 to 10V link selectable (single or dual channel)
Serial RS232 or RS485 with choice of ASCII or Modbus RTU protocols
Digital Binary or BCD
- DC voltage out: Isolated 24V (±12V), 20mA

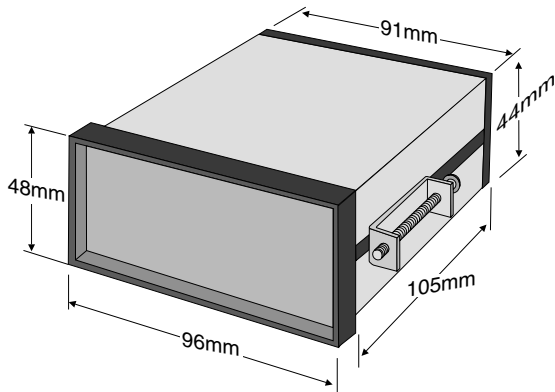
PHYSICAL CHARACTERISTICS

- 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: 400 gms basic model, 450 gms with option card

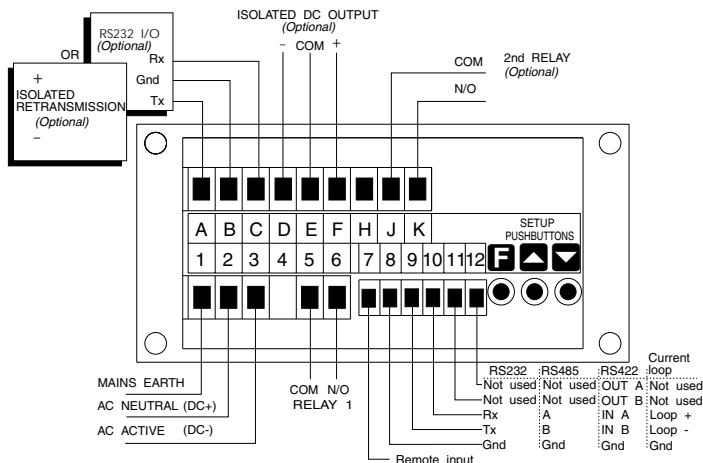
PANEL MOUNT INSTALLATION



INSTRUMENT DIMENSIONS



ELECTRICAL CONNECTIONS



ORDER CODE

PM4-RS- - -

POWER SUPPLY

PM4-RS- -

240 VAC	<input type="checkbox"/> 2 <input type="checkbox"/> 4 <input type="checkbox"/> 0
110 VAC	<input type="checkbox"/> 1 <input type="checkbox"/> 1 <input type="checkbox"/> 0
32 VAC	<input type="checkbox"/> 3 <input type="checkbox"/> 2
24 VAC	<input type="checkbox"/> 2 <input type="checkbox"/> 4
12 to 48 VDC	<input type="checkbox"/> D <input type="checkbox"/> C <input type="checkbox"/> H
50 to 110 VDC	<input type="checkbox"/> D <input type="checkbox"/> C <input type="checkbox"/> H

DISPLAY TYPE

PM4-RS- -

4 DIGIT LED	<input type="checkbox"/> 4 <input type="checkbox"/> E
5 DIGIT LED + KEYPAD & ALARM LEDs	<input type="checkbox"/> 5 <input type="checkbox"/> E
6 DIGIT LED + KEYPAD	<input type="checkbox"/> 6 <input type="checkbox"/> E
8 DIGIT LED + KEYPAD	<input type="checkbox"/> 8 <input type="checkbox"/> E
BARGRAPH + 5 DIGIT DISPLAY + KEYPAD	<input type="checkbox"/> 5 <input type="checkbox"/> B <input type="checkbox"/> P
4 DIGIT LCD	<input type="checkbox"/> 4 <input type="checkbox"/> C
6 DIGIT LCD	<input type="checkbox"/> 6 <input type="checkbox"/> C

RETRANSMISSION OUTPUT

PM4-RS- -

ANALOG (4-20mA, 0-1V, 0-10V selectable)	<input type="checkbox"/> A <input type="checkbox"/> A
DUAL ANALOG (4-20mA, 0-1V or 0-10V selectable)	<input type="checkbox"/> A <input type="checkbox"/> A
RS232	<input type="checkbox"/> 2
RS485	<input type="checkbox"/> 4
BCD/Binary NPN	<input type="checkbox"/> D <input type="checkbox"/> N
BCD/Binary PNP	<input type="checkbox"/> D <input type="checkbox"/> P

EXTRA RELAY OUTPUTS

PM4-RS- -

1 EXTRA RELAY	<input type="checkbox"/> R
3 EXTRA RELAYS	<input type="checkbox"/> R <input type="checkbox"/> R <input type="checkbox"/> R
6 EXTRA RELAYS	<input type="checkbox"/> R <input type="checkbox"/> 6

DC VOLTAGE OUTPUT (to power external sensors etc.)

PM4-RS- -

24V (can be connected as ±12V)	<input type="checkbox"/> 1 <input type="checkbox"/> 2
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