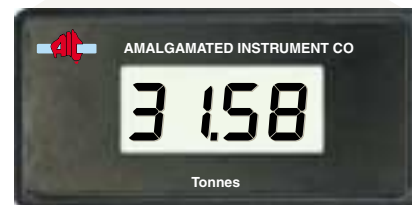
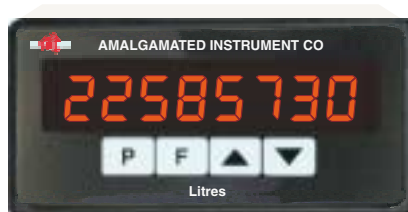
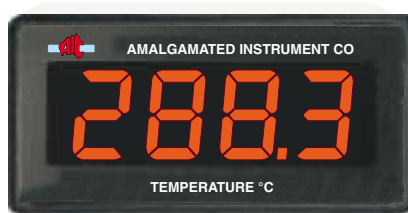


# Panel Mount Monitors

A Quick Reference to the range of panel mount monitors designed & manufactured by Amalgamated Instrument Co



# PANEL MOUNT INSTRUMENTS - Inputs and Applications \*

## **UNIVERSAL**

PM4-TCR Analog mA, DCV, 3-wire slidewire, thermocouple or RTD

## **Analog Input**

PM4-IV..±20mA, 4-20mA ±100mV, ±1V, ±10V, ±100V

PM4-IVT analog inputs with totaliser functions

PM4-IV3 3 analog inputs with arithmetic functions

PM4-LN 50 point lineariser with analog input

PM4-LNT 50 point lineariser with totaliser functions

## **Rate, Total, Count, Frequency**

PM4-TR Pulse input ratemeter/totaliser/counter

PM4-QC Quadrature encoder input ratemeter/totaliser/counter

## **Weight, Pressure, Level - Strain Bridge input**

PM4-WT 4 or 6-wire strain bridge transducer input - high precision

PM4-SG 4-wire strain bridge transducer input

## **pH & ORP (Redox)**

PM4-PH pH and Temperature display with temperature compensation

PM4-OR ORP (Redox)

## **Conductivity**

PM4-CO Conductivity/Resistivity with temperature compensation

PM4-2CO dual channel conductivity/resistivity/percent rejection

## **Serial Input**

PM4-RS 232, 485, CL RS232, RS485 or Serial Current Loop input

PM4-SSI Synchronous Serial Interface (SSI) input

## **Temperature**

PM4-RT8 4 inputs of 3-wire RTD sensors or 8 inputs of 2-wire RTD sensors

## **BCD, Binary, Gray Code**

PM4-BC BCD, Binary or Gray Code input

## **Timers and Real Time Clocks**

PM4-RTC Real Time Clock

PM4-TMR Timer with elapsed time & stopwatch functions

## **AC Voltage & Current**

PM4-AV AC Voltage (true RMS) 0-250VAC

PM4-AI AC Current (true RMS) 0-5A AC

## **2-wire loop powered displays**

PM4-LP-4C loop powered with 4 digit LCD display

PM4-LP-6C loop powered with 6 digit LCD display with rate & totaliser functions

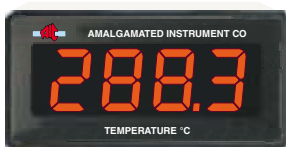
## **Auto/Manual loading stations**

PM4-AM Auto/Manual loading station

PM4-ML Manual loading station

\* Please visit the AIC website - <http://www.aicpl.com.au> - for comprehensive datasheets for the individual products.

# PM4 & PM6 Panel mount monitors - Physical Characteristics



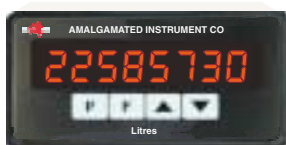
Display 4E  
4 digit LED digit size 20mm



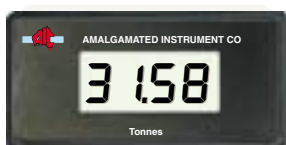
Display 5E  
5 digit LED digit size 14.2mm  
plus keypads and status LEDs



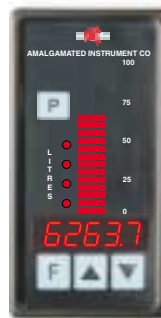
Display 6E  
6 digit LED digit size 14.2mm  
plus keypads



Display 8E  
8 digit LED digit size 10mm  
plus keypads



Display 4C  
4 digit LCD  
digit size 12.7mm



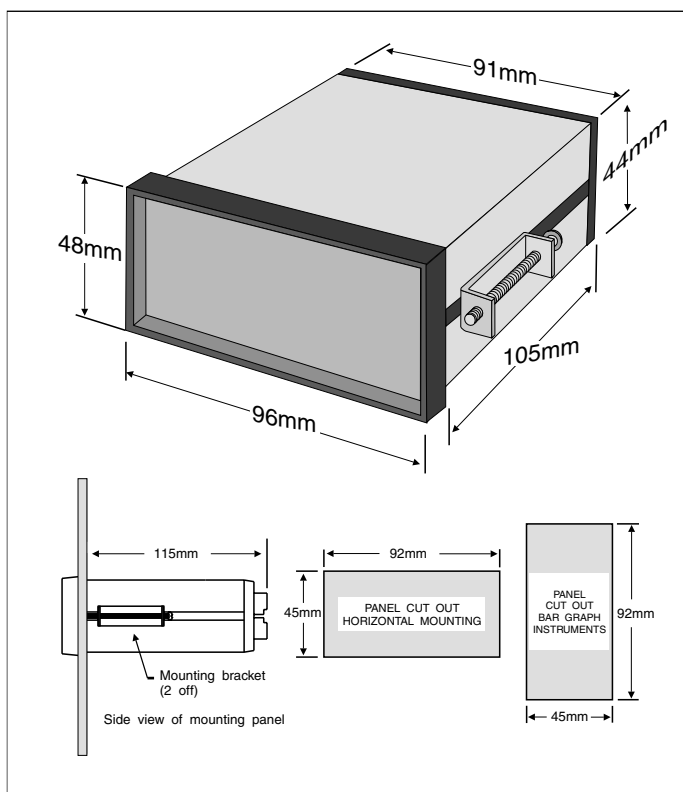
Display 5BP  
20 segment LED bargraph  
with 5 digit 7.6mm display  
plus keypads &  
alarm LEDs



Circular display  
16 segment  
circular bargraph  
with 5 digit  
7.6mm display  
plus keypads &  
alarm LEDs.  
Shown with AMPS  
& wind monitoring  
displays



Display 6C  
6 digit LCD  
digit size 12.7mm



## Output Options for PM4 range\*

### Additional relays

Up to 6 additional relays can be added

### Analog retransmission

Isolated single retransmission  
Dual isolated retransmission

### Serial communications

Isolated RS232 communications  
Isolated RS485 communications

### Transmitter supply

24VDC ( $\pm 12$ VDC) isolated transmitter supply

### Digital retransmission

NPN 16 bit Binary/BCD retransmission  
PNP 16 bit Binary/BCD retransmission

**NOTE:** combinations of output options are available.  
For example the -AR12 option adds an analog output,  
a second relay and a transmitter supply

\* Check individual product datasheets for option availability

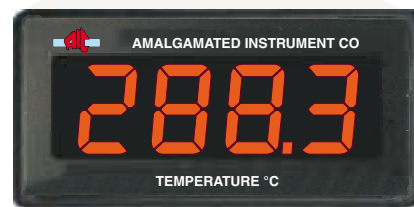
## PM6 economical programmable panel mount displays

The PM6 range of Panel Mount Displays offer compact and economical digital displays in a convenient instrument size.

The range offers a 4 digit LED display with the digits 20mm high. This gives a viewing distance of up to 10m.

The displays are fully configurable. As displays only, it is not possible to add output options.

The PM4 range offers a wider variety of displays, output options and alarms.



### DC analog Input

PM6-IV  $\pm 20\text{mA}$ , 4-20mA,  $\pm 100\text{mVDC}$ ,  $\pm 1\text{VDC}$ ,  $\pm 10\text{VDC}$  or  $\pm 100\text{VDC}$

### Totaliser or Ratemeter (configurable)

PM6-FC Pulse input including contact closure, NPN, PNP, CMOS etc

### Ratemeter/Tachometer

PM6-FX Pulse input including contact closure, NPN, PNP, CMOS etc

Amalgamated Instrument Co Pty Ltd is a specialist designer and manufacturer of process measurement instrumentation and sensors.

AIC is a wholly owned Australian company founded in 1978. The company is dedicated to designing and manufacturing products to meet the growing sophisticated process control area.

AIC has special expertise in instrumentation for weighing, pressure and batching, pH, conductivity and rate/total applications. AIC's panel mount range has an instrument for most applications.

Amalgamated Instrument Co is a Quality Endorsed Company to AS/NZS 9001:2000 (Licence Number QEC6187).

AIC products carry the "C-tick" mark where appropriate to signify compliance with Australian EMC emission standards

AIC is also proud to be associated with the AUSBUY programme as a company 100% Australian Owned and offering products wholly made in Australia.



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