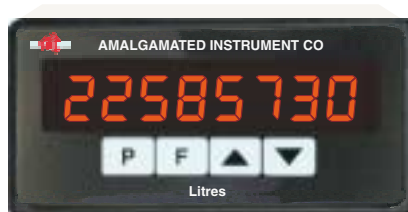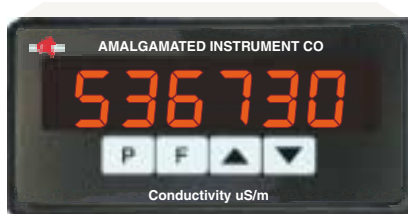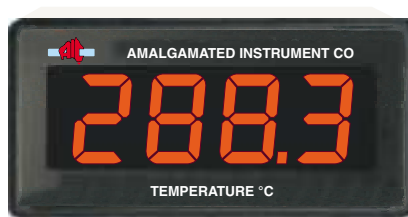# Panel Mount Monitors

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

AMALGAMATED INSTRUMENT CO

288.3

TEMPERATURE °C

AMALGAMATED INSTRUMENT CO

77676

Kilograms

AMALGAMATED INSTRUMENT CO

536730

Conductivity uS/m

AMALGAMATED INSTRUMENT CO

22585730

Litres

AMALGAMATED INSTRUMENT CO

100
75
50
25
0

LITRES

6263.7

AMALGAMATED INSTRUMENT CO

N
W Wind Direction E
S

1 2 3 4

Wind Speed m/sec

25.7

AMALGAMATED INSTRUMENT CO

AMPS

1 2 3 4

AMPS AC

17.38

AMALGAMATED INSTRUMENT CO

31.58

Tonnes

AMALGAMATED INSTRUMENT CO

629573

Litres - Litres/min

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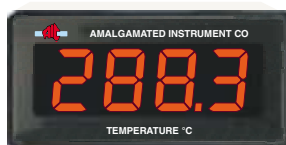PM4-LP-6C loop powered with 6 digit LCD display with rate & totaliser functions

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
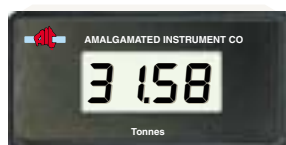
Display **4E**
4 digit LED digit size 20mm

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
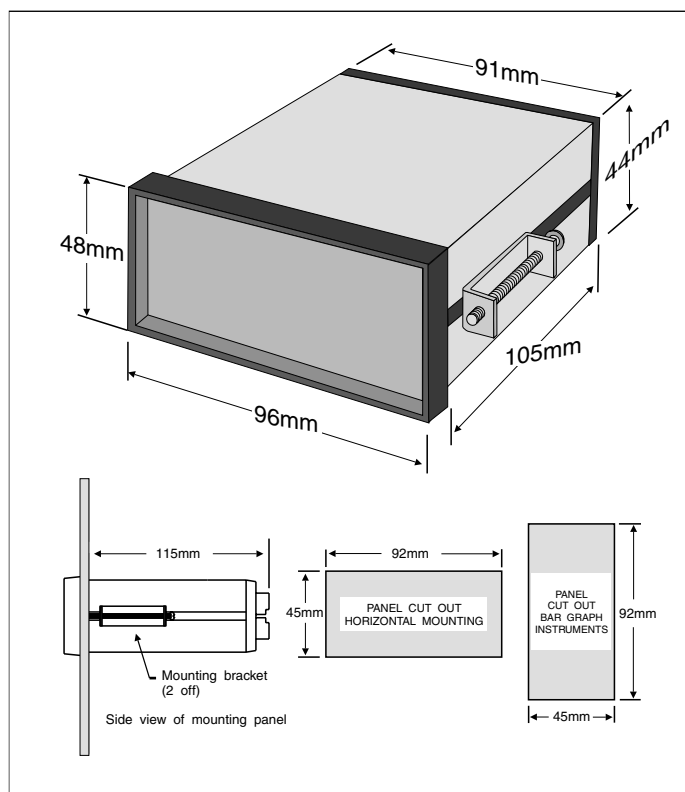
Display **4C**
4 digit LCD
digit size 12.7mm

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

91mm
44mm
48mm
105mm
96mm

115mm
92mm
45mm
PANEL CUT OUT
HORIZONTAL MOUNTING
PANEL CUT OUT
BAR GRAPH
INSTRUMENTS
92mm
45mm
Mounting bracket (2 off)
Side view of mounting panel

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 (±12VDC) 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

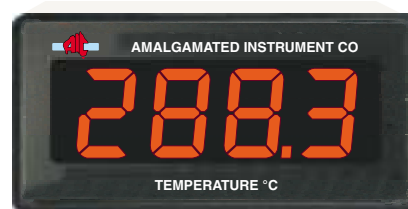* Check individual product datasheets for option
  availability

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 ±20mA, 4-20mA, ±100mVDC, ±1VDC, ±10VDC or ±100VDC
_____

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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