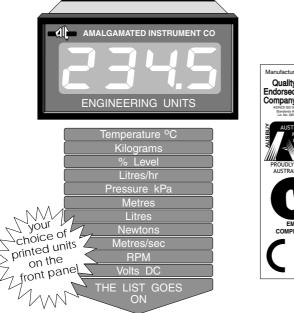
The Intelligent PM6-IV fully user configurable panel meter



Quality Endorsed

Description

The PM6 panel mount display features easy to use set up programming functions. Changes to the settings are made using three pushbuttons located at the rear of the instrument.

The PM6-IV accepts DC inputs of ±20mA, 4-20mA, ± 100 mV, ± 1 V, ± 10 V and ± 100 V and may be scaled to read directly in your engineering units. The instrument may be scaled without the need for test equipment, simply by entering in the display values for the upper and lower limits of the selected range. The PM6 may also be calibrated 'on line' by entering in the actual process values at two points. For applications requiring non linear calibration sixteen point X, Y linearisation and a square root extractor functions are included.

The high accuracy design allows for calibration within the pre-defined ranges, for example a 0 to 100mV input may be displayed using the 0-1V range and will be scalable over the full 4 digit display range with a minimum resolution of 1 in 20,000.

The large high brightness 20mm red LED display provides excellent visibility, even in brightly lit areas. A special feature of the PM6 is the programmable display brightness, which allows the display intensity to be reduced to conserve power or to reduce glare in darker areas.

The PM6 is packaged in a rugged industrial $\frac{1}{8}$ DIN panel mount enclosure, with a behind panel depth of only 115mm.

Features

- Measures DC inputs within the user selectable ranges of ±20mA, 4-20mA, ±100mV, ±1V, ±10V or ±100V
- 4 digit high brightness LED display
- Large 20mm high digits
- Display viewing distance up to 10m
- Programmable display brightness, helps to reduce glare in low light environments
- Easily scaled to read in engineering units e.g. Litres/sec., kPa, etc.
- Can be scaled without the need for test equipment or special tools
- All function setup and scaling adjustments by rear pushbuttons
- Calibration and set up data stored in EEPROM
- Programmable decimal point
- Programmable digital filter, improves stability
- Up to 16 point X, Y lineariser table
- Square root extractor
- Leading zero blanking
- Inbuilt unregulated transmitter supply 25mA max., (18 to 24V nominal) on both AC supply models. Isolated DC supply models transmitter supply is approx. 15VDC regulated
- Choice of power supplies 240 VAC, 110VAC, 32VAC, 24VAC isolated 12 to 48V DC or 40 to 60 VDC (factory configured)
- Plug-in screw electrical terminals for ease of installation
- Din size 48mm x 96mm bezel
- Microprocessor based design
- Computer tested and pre-calibrated
- High reliability surface mount electronics
- Rugged aluminium enclosure
 - 2 year guarantee

ACN: 001 589 439

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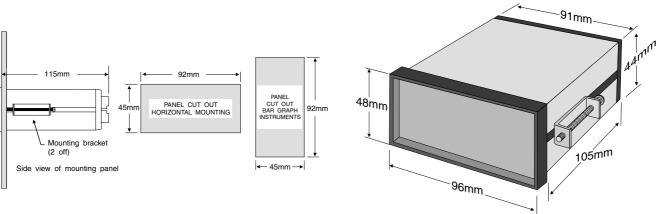
Specifications and Ordering Information

Specifications are subject to change without notice

| | | Transmitter supply: | DC output 18 to 24VDC nom. |
|-------------------|---------------------------------------------------------------------------------------|--------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Input: | DC ±20mA, 4-20mA DC ±100mV, ±1V, ±10V or ±100V | | (unregulated) (AC supply models). For isolated DC supply models output is approx. 15VDC regulated. (25mA maximum) |
| Input impedance: | 105 Ω nom. DC current range 1M Ω nom. DC voltage ranges | | |
| Accuracy: | 0.1% FS when calibrated | PHYSICAL CHARACTERISTICS | |
| ADC resolution: | 1 in 20,000 | Bezel size: | 48mm x 96mm x 10mm |
| AD conversion: | Dual slope ADC | Case size: | 44mm x 91mm x 120mm behind face of panel |
| Sample rate: | 4 per second | Panel cut out: | 45mm x 92mm +1mm |
| Memory retention: | Non volatile EEPROM memory | | & - 0mm |
| Microprocessor: | MC68HC05 CMOS | Connections: | Plug in screw terminals |
| Ambient temp: | -10 to 60°C | | (up to 2.5mm ² wire) |
| Humidity: | 5 to 95% non condensing | Weight: | 400 gms unpacked |
| Display type: | 4 digit red 20mm digit height | ORDER CODE | |
| Power supply: | 240V, 110V, 32V, 24V AC or isolated 12 to 48V DC (factory configured) | 240VAC powered: | PM6-IV-240-4E |
| | | 110VAC powered: | PM6-IV-110-4E |
| Power usage: | AC supply 2VA plus transmitter current DC supply 2W plus transmitter current | 32VAC powered: | PM6-IV-32-4E |
| | | 24VAC powered: | PM6-IV-24-4E |
| | | 12-48 VDC powered: | PM6-IV-DC-4E |
| | | 40-60 VDC powered | PM6-IV-48D-4E |

PANEL MOUNT INSTALLATION

INSTRUMENT DIMENSIONS



ELECTRICAL CONNECTIONS

