

## PM8005/8006 Series

### Panel Meter

- AC and DC supply options
- 6 digit LED display
- Direct access menu
- Functions for calibration, alarm setting and more
- Wide range of optional functions



## Specifications

The PM8000 Series digital panel meters are easy to set up and commission, whilst offering extremely high precision and long term reliability.

A MENU-FREE calibration system is employed with this panel meter design. This makes calibration and set-up of operating parameters very straightforward and radically simplifies this process compared with the usual menu arrangement used on most digital meters. The menu in this case is replaced by simple push buttons enabling zero, span, analogue output or alarms to be adjusted via buttons on the front of the panel.

The 6 digit red LED display is standard, providing +/-30,000 count resolution and an accuracy of 0.10% of range. Input signals include 4-20mA, 0-10mV, 0-5V and 0-10V sensor excitation supply is provided and can be used to power an external transmitter current loop.

### Optional features include;

- AC or DC excitation
- 4-20 mA or 0-10 Vdc analogue output
- Zero, two or four alarms/relays
- Various serial data outputs
- Splash proof cover.

Please contact us with your specifications and we will advise you on the suitable model for your application.

## Dimensions (in mm)



## Technical Data

Type	PM8005/8006
Display:	High intensity red LED display, 14 mm digit height.
Display Update Rate:	10 readings per second
Resolution:	1 in 400,000 counts maximum over full range, with 6 Digit Display (-199999 to +199999)
Input Resistance:	33 $\Omega$ for current input, 1 M $\Omega$ for voltage
Filtering/Smoothing:	Selectable time constant of 0 to 5 seconds
Accuracy:	$\pm 0.05$ % of range
Temperature Stability:	25 ppm/ $^{\circ}$ C span, 30 ppm/ $^{\circ}$ C offset
Output for External Sensors:	24 VDC
Current Capacity of Excitation Supply:	60 mA for 24 VDC
Power Supply:	Optional 95 to 265 VAC, 11 to 30VDC
Current Consumption:	10VA maximum
Temperature Range:	Operating: 0 $^{\circ}$ C to + 50 $^{\circ}$ C (32 $^{\circ}$ F to +122 $^{\circ}$ F); Storage: -20 $^{\circ}$ C to + 70 $^{\circ}$ C (-4 $^{\circ}$ F to +158 $^{\circ}$ F)
Electromagnetic Capability:	EMC EN61326-1:1997, Safety EN61010-1:2001; Certification CE marked
Electrical Connection:	Detachable screw terminal connector for conductor size 0.5 mm <sup>2</sup> to 1.5 mm <sup>2</sup>
Bezel Size:	96 mm wide x 48 mm high (1/8 DIN)
Cutout Size:	92 mm wide x 45 mm high
Depth behind Panel:	125 mm minimum required
Weight:	300 grams typically
Case Material:	Black polycarbonate. Optional splash proof cover available.
Net. Weight (Kg):	0.4 Kg

## Order Matrix

Model	Power Supply	Analogue Output	No. of Alarms	Serial Output
<b>Standard 5 Digit Panel Meter without Features</b>				
PM8005-AC	95-265Vac	No	No	No
PM8005-VDC	11-30Vdc	No	No	No
<b>Panel Meter with Options- AC Mains Supply</b>				
PM8006-AC-I	95-265Vac	4-20mA	No	No
PM8006-AC-I-AL2			2	No
PM8006-AC-I-AL4			4	No
PM8006-AC-I-AL2-232			2	RS232
PM8006-AC-I-AL4-232			4	RS232
PM8006-AC-I-AL2-485			2	RS485
PM8006-AC-I-AL4-485			4	RS485
<b>Panel Meter with Options- DC Mains Supply</b>				
PM8006-VDC-I	11-30Vdc	4-20mA	No	No
PM8006-VDC-I-AL2			2	No
PM8006-VDC-I-AL4			4	No
PM8006-VDC-I-AL2-232			2	RS232
PM8006-VDC-I-AL4-232			4	RS232
PM8006-VDC-I-AL2-485			2	RS485
PM8006-VDC-I-AL4-485			4	RS885
PM8006-VDC-V		0-10Vdc	No	No
PM8006-VDC-V-AL2			2	No
PM8006-VDC-V-AL4			4	No
PM8006-VDC-V-AL2-232			2	RS232
PM8006-VDC-V-AL4-232			4	RS232
PM8006-VDC-V-AL2-485			2	RS485
PM8006-VDC-V-AL4-485			4	RS885
PM8006-VDC-AL2		No	2	No
PM8006-VDC-AL4			4	No
PM8006-VDC-AL2-232			2	RS232
PM8006-VDC-AL4-232			4	RS232
PM8006-VDC-AL2-485			2	RS485
PM8006-VDC-AL4-485			4	RS485
PM8006-VDC-232	No		RS232	
PM8006-VDC-485	No	RS485		
<b>Panel Meter with Options- AC Mains Supply, mV Input</b>				
PM8006-AC-MV	95-265Vac	No	No	No