



# PM8005/8006

SERIES PANEL METERS



- AC AND DC SUPPLY OPTIONS
- 5 DIGIT LED DISPLAY
- DIRECT ACCESS MENU FUNCTIONS FOR CALIBRATION, ALARM SETTING AND MORE
- LARGE RANGE OF OPTIONAL FUNCTIONS

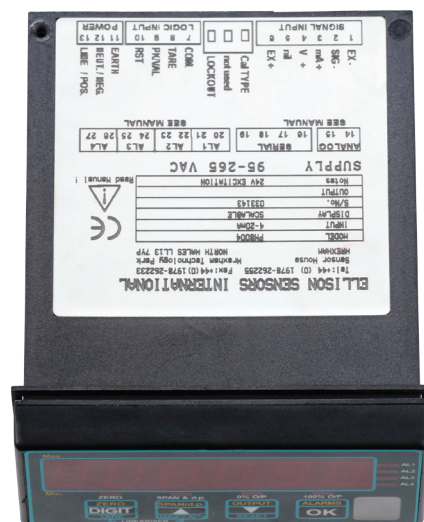
## DESCRIPTION

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

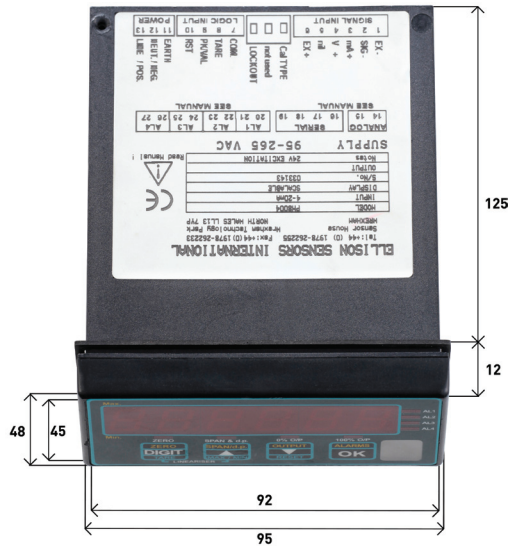
A MENU-FREE calibration system is employed with this panel meter design. This makes calibration and set-up of operating parameters very straightforward and radically simplifies this process compared with the usual menu arrangement used on most digital meters. The menu in this case is replaced by simple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

The 5 digit red LED display is standard, providing +/-30000 count resolution and an accuracy of 0.10% of range. Input signals include 4-20mA, 0-10V, 1-5V and 0-10mA. A 24V sensor excitation supply is provided and can be used to power an external transmitter current loop.

Optional features include; AC or DC excitation, 4-20mA or 0-10Vdc analogue output, zero, two or four alarms/relays, various serial data outputs. Please contact us with your specifications and we will advise you on the suitable model for your application.



## DIMENSIONS MM



## ORDERING INFORMATION

Model	Excitation	Analogue Output	Alarm	Serial Output	Power Supply	Analogue Output	Number of Alarms	Serial Output
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### Standard 5 Digit Panel Meters Without Features

PM8005	- AC				95-265Vac	No	No	No
PM8005	- VDC				11-30Vdc	No	No	No

### Panel Meters With Options - AC Mains Supply

PM8006	- AC	- I			95-265Vac	4-20mA	No	No
PM8006	- AC	- I	- AL2		95-265Vac	4-20mA	2	No
PM8006	- AC	- I	- AL4		95-265Vac	4-20mA	4	No
PM8006	- AC	- I	- AL2	- 232	95-265Vac	4-20mA	2	RS232
PM8006	- AC	- I	- AL4	- 232	95-265Vac	4-20mA	4	RS232
PM8006	- AC	- I	- AL2	- 485	95-265Vac	4-20mA	2	RS485
PM8006	- AC	- I	- AL4	- 485	95-265Vac	4-20mA	4	RS485
PM8006	- AC	- V			95-265Vac	0-10Vdc	No	No
PM8006	- AC	- V	- AL2		95-265Vac	0-10Vdc	2	No
PM8006	- AC	- V	- AL4		95-265Vac	0-10Vdc	4	No
PM8006	- AC	- V	- AL2	- 232	95-265Vac	0-10Vdc	2	RS232
PM8006	- AC	- V	- AL4	- 232	95-265Vac	0-10Vdc	4	RS232
PM8006	- AC	- V	- AL2	- 485	95-265Vac	0-10Vdc	2	RS485
PM8006	- AC	- V	- AL4	- 485	95-265Vac	0-10Vdc	4	RS485
PM8006	- AC		AL2		95-265Vac	No	2	No
PM8006	- AC		AL4		95-265Vac	No	4	No
PM8006	- AC		AL2	- 232	95-265Vac	No	2	RS232
PM8006	- AC		AL4	- 232	95-265Vac	No	4	RS232
PM8006	- AC		AL2	- 485	95-265Vac	No	2	RS485
PM8006	- AC		AL4	- 485	95-265Vac	No	4	RS485
PM8006	- AC			232	95-265Vac	No	No	RS232
PM8006	- AC			485	95-265Vac	No	No	RS485

### Panel Meters With Options - DC Supply

PM8006	- VDC	- I			11-30Vdc	4-20mA	No	No
PM8006	- VDC	- I	- AL2		11-30Vdc	4-20mA	2	No
PM8006	- VDC	- I	- AL4		11-30Vdc	4-20mA	4	No
PM8006	- VDC	- I	- AL2	- 232	11-30Vdc	4-20mA	2	RS232
PM8006	- VDC	- I	- AL4	- 232	11-30Vdc	4-20mA	4	RS232
PM8006	- VDC	- I	- AL2	- 485	11-30Vdc	4-20mA	2	RS485

**DISCLAIMER** : ESI Technology Ltd operates a policy of continuous product development. We reserve the right to change specification without prior notice. All products manufactured by ESI Technology Ltd are calibrated using precision calibration equipment with traceability to international standards.

## SPECIFICATION

### DISPLAY

High intensity red LED display, 14.2mm digit height.

### RESOLUTION

+/-30000 counts maximum over full range, with 5 Digit Display (-20000 to +99999)

### INPUT RESISTANCE

33ohms for current input, 1.1Mohms for voltage

### FILTERING / SMOOTHING

Selectable time constant of 0 to 5 seconds

### ACCURACY

0.1% of reading +/-2 counts  
TEMPERATURE STABILITY:  
100 ppm/°C for span, 50/°C for zero

### OUTPUT FOR EXTERNAL SENSORS

24Vdc

### ACCURACY OF THE EXCITATION SUPPLY

+/-20% accuracy.

### CURRENT CAPACITY OF THE EXCITATION SUPPLY

30mA for 24V

### POWER SUPPLY

Optional 95 to 265 Vac, 11 to 30Vdc or 110-240AC

### CURRENT CONSUMPTION

8VA maximum

### TEMPERATURE RANGE

Operating: 0°C to + 50°C  
Storage: -10°C to + 70°C

### HUMIDITY

90% RH maximum at 40°C, non-condensing

### ELECTROMAGNETIC-COMPATIBILITY

Emissions EN61000-6-4  
Immunity EN61000-6-2  
Certification CE marked

### ELECTRICAL CONNECTION

4 way detachable screw terminal connector for conductor size 0.5 to 1.5mm

### BEZEL SIZE

96mm wide x 48mm high (1/8 DIN)

### CUTOUT SIZE

92mm wide x 45 mm high

### DEPTH BEHIND PANEL

125 mm minimum required

### WEIGHT

300 grams typically  
CASE MATERIAL:  
UL 94V0 rated black ABS

### ALARM RELAYS RELAY VOLTAGE RATING

250Vac, 24Vdc

### ALARM HYSTERESIS

Settable from 0 to 9998 counts

### ALARM SET-POINT STABILITY

+/- 100 ppm/°C typical

### ALARM SPEED OF RESPONSE

15mS typical

