

# PANEL METER

PM8000 SERIES PANEL METER

## 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

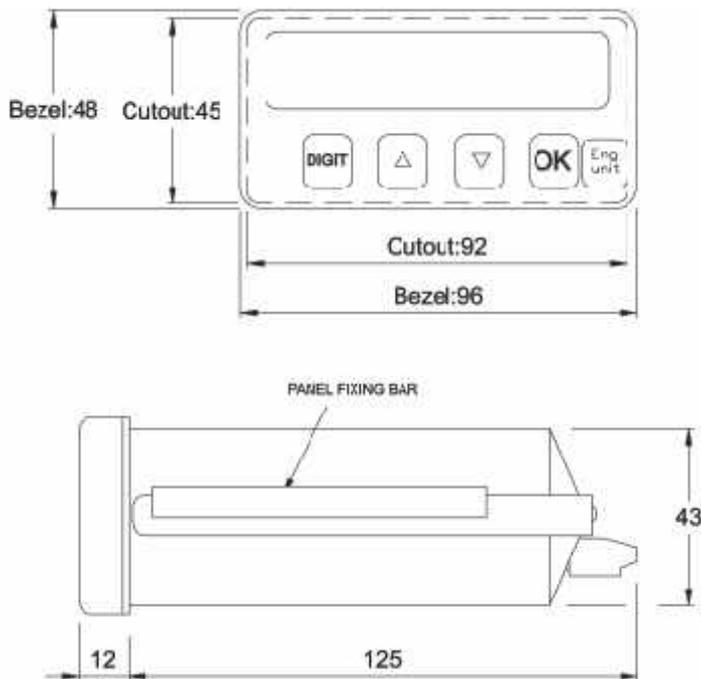
### ALARM SET-POINT STABILITY:

+/- 100 ppm/°C typical

### ALARM SPEED OF RESPONSE:

15mS typical

## DIMENSIONS (in mm)



### CALIBRATION

All products manufactured by Ellison Sensors are calibrated using precision calibration equipment with traceability to international standards.

Ellison Sensors operates a policy of continuous product development. We reserve the right to change specification without prior notice.

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# PANEL METER

PM8000 SERIES PANEL METER



- EASY TO PROGRAMME
- 5 DIGIT LED DISPLAY
- EXCELLENT STABILITY/ACCURACY
- 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.

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