

PANEL METER

PM1000 SERIES
PLUG-ON DISPLAY



- BRIGHT LED DISPLAY
- INDICATION RANGE -999 TO +9999
- FITS TO DIN 43650 CONNECTOR
- PLUG-ON TO ANY TRANSMITTER WITH 4-20mA OUTPUT
- EASY TO SCALE ON SITE
- ROBUST DESIGN
- SET POINT OPTION

The PM1000 series is a universal 4 digit LED plug-on display for transmitters with 4-20mA 2 wire output and fitted with DIN43650 connector.

The plug-on display simply fits between the transmitter plug and connecting cable socket and is powered from the 4-20mA current loop signal of the transmitter. No additional power is required.

Display settings are stored in non-volatile EEPROM, and can be easily modified through the menu using two programming buttons. Calibration parameters (zero, span, decimal point position, filter, and set-point level) can all be reprogrammed and stored and retained when power is removed. The display assembly inside the enclosure can be rotated through 90° steps, which will suit any mounting angle and simply installation.

Model PM1000 is the standard version. An integral open-drain switch output is provided on model PM1001. This can be programmed to open or close at a set-point level. The output can then be used to trigger an alarm or provided external controller.

Typical applications for the plug-on display include use on pressure, temperature, level, RH, or flow transmitters for local readout, alarm activation or control.

Adaptations for custom connectors can be made and available on request.

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SPECIFICATION

DISPLAY:

4 digit red LED display, 7mm digit height.

DISPLAY OUTPUT RANGE:

-999 to 9999

INPUT SIGNAL:

4-20mA, 2 wire current loop.

DISPLAY CALIBRATION:

Factory set to display 4.00 to 20.00 for 4-20mA input.

ACCURACY:

0.2% of full-scale input +/- 1 digit

POWER SUPPLY VOLTAGE:

Requires 5 V or less from loop supply.

ALLOWED LOOP CURRENT:

Maximum 60mA. Above this automatic circuit protection is activated.

DISPLAY SAMPLING RATE:

300mS to 25.5 S, adjustable filter setting from menu.

OPEN DRAIN SWITCH OUTPUT:

Model number PM1001 only: P type MOSFET switch. Maximum current source: 90mA, with automatic circuit protection.

PROGRAMMING:

Via two press buttons, menu assisted.

Access to the programming buttons is made by removing front cover.

MENU SELECTION:

Zero adjustment: -999 to 9999

Span adjustment: 0 to 9999

Decimal point: 3 positions or off

Filter: 0.3 to 25.5 second

Over-range: On/Off

Setpoint: -999 to 9999

Setpoint direction: Up/Down

Settings stored in Non-volatile EEPROM

ERROR MESSAGES:

When over-range option is selected:

'HI' is displayed when input is above 20mA 'LO'

is displayed when input is less than 4mA

when over-range option is off:

'ErC6' is displayed when range -999 to 9999 is exceeded.

TEMPERATURE RANGE:

Operating: - 10°C to + 60°C

Storage: - 30°C to + 80°C

CASE MATERIAL:

Moulded ABS plastic, Red Acrylic display window, Nitrile seal.

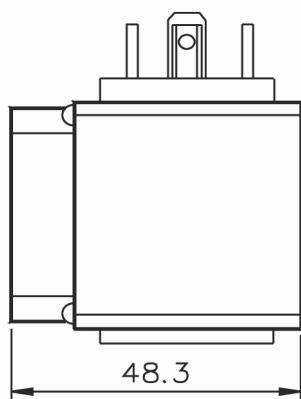
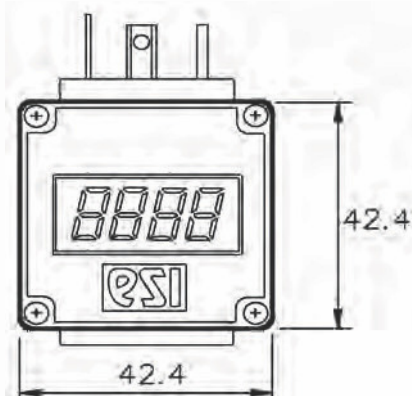
INGRESS PROTECTION TYPE:

Splash-proof, enclosure sealed to IP65

ELECTRICAL CONNECTION:

Plugs directly onto transmitters with 4-20 mA output and right-angle DIN 43650 (3-pin +earth) connector plug.

DIMENSIONS (in mm)



PROGRAMMING

To setup display:

Remove 4 screws and front cover to access programming buttons

ELECTRICAL CONNECTIONS

Pin No.	PM1000	PM1001
1	+supply	+supply
2	4-20mA signal	-supply
3	not connected	open drain (P type switch)
—	Connected through to transducer plug	

ORDER DETAILS

State model number.

Model No.	DESCRIPTION
PM1000	Standard plug-on display.
PM1001	Plug-on display with single set point.

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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