



# PM1000 Series

Plug-in Display



- Indication range -999 to 9999
- Plugs on to any transmitter with 4-20 mA output
- Bright LED display
- Set point option
- Easy to use
- Provides compact localised display





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Plug-in Display

## Description

The PM1000 series is a 4 digit LED plug-on display for use with transmitters with 4-20 mA 2 wire output and fitted with DIN43650 connector. It provides a local display for a multitude of applications.

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

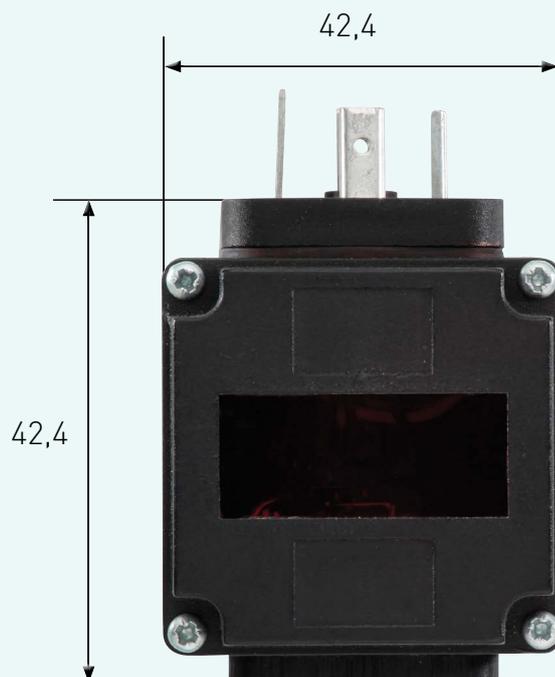
Display settings are stored in non-volatile EEPROM, and can be easily modified through the menu using two programming buttons. Set-up parameters (zero, span, decimal point position, filter, and set-point level) can all be reprogrammed and stored and retained when power is removed. The display assembly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

Model PM1000 is the standard version providing a 4 digit LED display. 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.

## Dimensions (in mm)



### ELECTRICAL CONNECTION

Pin No.	PM1000/2	PM1001
1	+supply	+Supply
2	4-20mA Return	4-20mA Return
3	Not connected	open drain (P type switch)
⏏	Connected through to transducer plug	



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## Technical Data

	PM1000	PM1001
<b>Alarms:</b>	N/A	Single set point
<b>Display:</b>	4 digit red LED display, 7 mm digit height.	
<b>Display Output Range:</b>	-999 to 9999	
<b>Input Signal:</b>	4-20 mA, 2 wire current loop.	
<b>Display Calibration:</b>	Factory set to display 4.00 to 20.00 for 4-20 mA input.	
<b>Accuracy:</b>	0.2 % of full-scale input +/- 1 digit	
<b>Power Supply Voltage:</b>	Requires 5 VDC from loop supply.	
<b>Allowed Loop Current:</b>	Maximum 60 mA. Above this automatic circuit protection is activated.	
<b>Display Update Rate:</b>	300 mS to 25.5 S, adjustable filter setting from menu.	
<b>Open Drain Switch Output:</b>	Model number PM1001 only: P type MOSFET switch. Maximum current source: 90 mA, with automatic circuit protection	
<b>Programming:</b>	Via two press buttons, menu assisted. Access to the programming buttons is made by removing front cover	
<b>Menu Selection:</b>	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	
<b>Operating Media Temperature:</b>	-20 °C to +85 °C (-14 °F to +140 °F)	
<b>Storage Temperature:</b>	Operating: -10 °C to + 60 °C Storage: + 5 °C to + 40 °C (recommended best practice)	
<b>Case Material:</b>	Moulded ABS plastic, Red Acrylic display widow, Nitrile seal.	
<b>Ingress Protection Type:</b>	Splash-proof, enclosure sealed to IP65	
<b>Electrical Connection:</b>	Plugs directly onto transmitters with 4-20 mA output and mating socket EN175301-803 Form A (ex DIN43650) 3-pin + earth connector plug.	
<b>For use with ESI Models:</b>	GS4200; HP1003; HP1103; LP1003; PR3100; PR3110; PR3200; PR3850; PR3860	

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