



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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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.

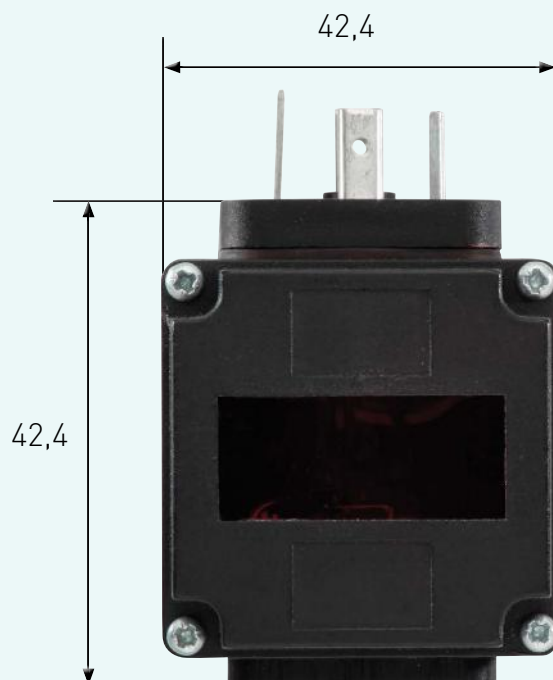
Display settings are stored in non-volatile EEPROM, and can be easily modified through the menu using two programming buttons. Set-up parameters (zero, span, decimal point position, filter, and set-point level) can all be reprogrammed and stored and retained when power is removed. The display assembly 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
Alarms:	N/A	Single set point
Display:	4 digit red LED display, 7 mm digit height.	
Display Output Range:	-999 to 9999	
Input Signal:	4-20 mA, 2 wire current loop.	
Display Calibration:	Factory set to display 4.00 to 20.00 for 4-20 mA input.	
Accuracy:	0.2 % of full-scale input +/- 1 digit	
Power Supply Voltage:	Requires 5 VDC from loop supply.	
Allowed Loop Current:	Maximum 60 mA. Above this automatic circuit protection is activated.	
Display Update Rate:	300 mS to 25.5 S, adjustable filter setting from menu.	
Open Drain Switch Output:	Model number PM1001 only: P type MOSFET switch. Maximum current source: 90 mA, 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	
Operating Media Temperature:	-20 °C to +85 °C (-14 °F to +140 °F)	
Storage Temperature:	Operating: -10 °C to + 60 °C Storage: + 5 °C to + 40 °C (recommended best practice)	
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 mating socket EN175301-803 Form A (ex DIN43650) 3-pin + earth connector plug.	
For use with ESI Models:	GS4200; HP1003; HP1103; LP1003; PR3100; PR3110; PR3200; PR3850; PR3860	

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