



# PM1000 Series

PLUG-IN DISPLAY



- INDICATION RANGE -999 TO 9999
- PLUG ON TO ANY TRANSMITTER WITH 4-20mA OUTPUT
- FITS TO DIN 43650 CONNECTOR
- BRIGHT LED DISPLAY
- SET POINT OPTION
- EASY TO USE
- PROVIDES LOCALISED DISPLAY

## DESCRIPTION

The PM1000 series is a 4 digit LED plug-on display for use with transmitters with 4-20mA 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 4-20mA 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 simply installation.

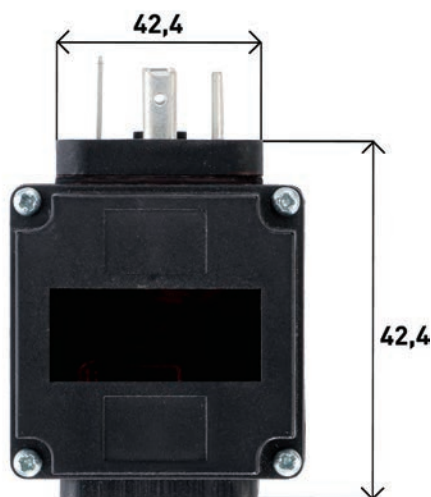
Model PM1000 is the standard version providing a 4 digit LED display. An integral open-drain switch output is provided on model PM1001. This can be programmed to open or close at a set-point level. The output can then be used to trigger an alarm or provided external controller.

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	

## ORDERING INFORMATION

### OUTPUT

Standard plug-in display  
Plug-in display with single set point

### Model No.

PM1000  
PM1001

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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 UPDATE 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

### TEMPERATURE RANGE

Operating: -10°C to + 60°C  
Storage: + 5°C to + 40°C

### CASE MATERIAL

Moulded ABS plastic, Red Acrylic display widow, 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.