Differential Pressure Sensor for Filters

measuring • monitoring • analyzing

PMP

- Compact Size
- 4-Digit LED-Indication
- 2 Programmable Relays
- Output: 4 - 20 mA
- Easy Installation
- Overrange up to 750 mbar
- Easy to Program

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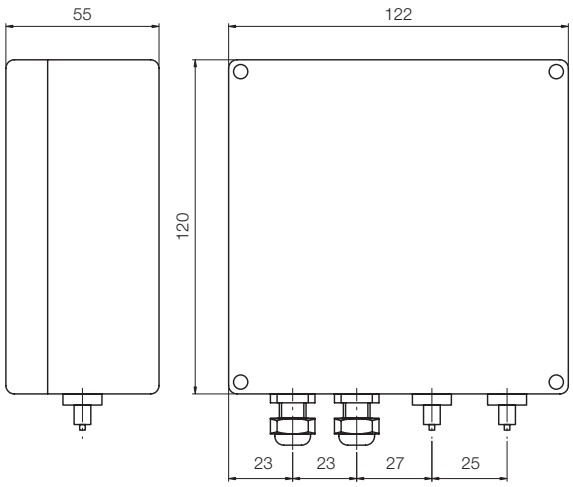
Description

The PMP differential pressure sensor is used for controlling and measuring the differential pressure of air or non-corrosive gases. It is widely used for monitoring filters by measuring the pressure difference before and after the filter chamber. The need for a cleaning cycle can then be determined by the increased differential pressure which activates the programmable relay. The second relay produces an alarm if the differential pressure continues to increase. The differential pressure is shown on a four-digit display. For remote transmission, a 4- 20 mA output signal is provided. The device is controlled by a micro processor. Relay, hysteresis, time delay of the relays, and analog output are programmable.

Technical Details

Range:	0...500 mm H2O (50 mbar)
Max. Pressure:	750 mbar
Ambient Temperature:	-10...60 °C
Housing:	Polycarbonate
Pressure Connection:	2x 1/4" NPT Female or 2x hose connectors or 6 x 8 mm tubing
Accuracy:	±1% of Full Scale
Resolution:	0.1 mm W.C.
LED-Indication:	4-digit, 15 mm high
Supply Voltage:	24, 110, 230 V_{AC} 50/60 Hz or 24 V_{DC}
Power Input:	4 VA
Max. Cable Diameter:	2.5 mm^2
2 relays:	max. 230 V_{AC}, 0.5 A
Output:	4- 20 mA (load max. 500 Ω)
Protection:	IP 65

Dimensions (mm)



Order Details

Model	Process Connections	Supply Voltage
PMP-1050..	**..E1..** = 6 x 8 mm Tube Connection **..N2..** = 1/4" NPT Female Connection	**..D042** = 230 V_{AC} **..D442** = 110 V_{AC} **..D242** = 24 V_{AC} **..D342** = 24 V_{DC}

Electrical Connection