Differential Pressure Sensor for Filters

- 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 for 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 VAC 50/60 Hz or 24 VDC
- **Power Input:** 4 VA
- **Max. Cable Diameter:** 2.5 mm²
- **2 relays:** max. 230 VAC, 0.5 A
- **Output:** 4-20 mA (load max. 500 Ω)
- **Protection:** IP 65

**Order Details**

<table>
<thead>
<tr>
<th>Model</th>
<th>Process Connections</th>
<th>Supply Voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td>PMP-1050..</td>
<td>..E1.. = 6 x 8 mm Tube Connection</td>
<td>..D042 = 230 VAC</td>
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<tr>
<td></td>
<td>..N2.. = 1/4&quot; NPT Female Connection</td>
<td>..D442 = 110 VAC</td>
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<td>..D242 = 24 VAC</td>
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<td>..D342 = 24 VDC</td>
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**Dimensions (mm)**

- 120 x 55
- 23 x 23 x 27 x 25

**Electrical Connection**

- Power: + (L) - (N)
- R1: Switch
- R2: Switch
- 4-20 mA

No responsibility taken for errors; subject to change without prior notice.