# Differential Pressure Sensor for Filters



## PMP

- Small dimensions
- 4-digit LED-indication
- 2 programmable relays
- Output: 4 - 20 mA
- Easy installation
- Overrange up to 750 mbar
- Easy programmable



KOBOLD companies worldwide:
ARGENTINA, AUSTRALIA, AUSTRIA, BELGIUM, BULGARIA, CANADA, CHILE, CHINA, COLOMBIA, CZECHIA, EGYPT, FRANCE, GERMANY, GREAT BRITAIN, HUNGARY, INDIA, INDONESIA, ITALY, MALAYSIA, MEXICO, NETHERLANDS, PERU, POLAND, REPUBLIC OF KOREA, ROMANIA, SINGAPORE, SPAIN, SWITZERLAND, TAIWAN, THAILAND, TUNISIA, TURKEY, USA, VIETNAM

KOBOLD Messring GmbH
Nordring 22-24
D-65719 Hofheim/Ts.
Head Office:
+49(0)6192 299-0
+49(0)6192 23398
info.de@kobold.com
www.kobold.com

## Description

The differential pressure sensor PMP is used for controlling and measuring the differential pressure of air or non-corrosive gases. It is mainly used for the monitoring of filters or filter cartridges measuring the pressure difference before and after the filter chamber.
Cleaning cycles can be determined by means of the programmable relay. If a predefined differential pressure is reached, the rinsing process can be started e.g. automatically via the solenoid valves, and the second relay produces an alarm if the differential pressure increases further on.
Thus, the cleaning cycles can be optimised and considerable quantities of compressed air can be saved.
The differential pressure is shown on a four-digit display. For a 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 analogue output are freely programmable.

## Application Areas

- Chemical industrie
- Tank construction

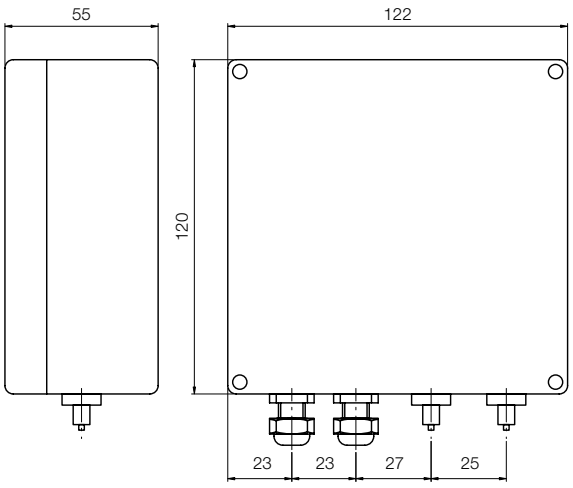
## Technical Details

| | |
|---|---|
| Range: | 0 ... 500 mm $H_2O$ (50 mbar) |
| Accuracy: | 1% of full scale |
| Max. pressure: | 750 mbar |
| Measuring accuracy: | 1% (0,5 mbar) |
| Ambient temperature: | -10 ... +60°C |
| Resolution: | 0.1 mm $H_2O$ |
| Housing: | Polycarbonate |
| Pressure connection: | 2 hose connectors for pipe 6 x 8 mm |
| 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: | IP65 |

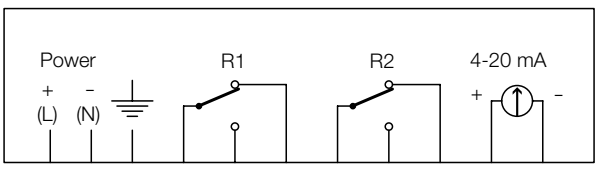
**Order no.:**

**PMP-1050 E1 D042 (230 $V_{AC}$)**
**PMP-1050 E1 D442 (110 $V_{AC}$)**
**PMP-1050 E1 D242 (24 $V_{AC}$)**
**PMP-1050 E1 D342 (24 $V_{DC}$)**

**Dimensions** [mm]




**Electrical connection**






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

1/12-2015