

PEL 1000 PRESSURE TRANSMITTER

PEL 1000 is made for detecting over - and under pressures and pressure differences of the air-handling system. Typical applications are ventilation and monitoring of fans and filters. Due to the IP 54 enclosure PEL can also be used in dusty and wet surroundings.

Connections to the process detected will be made by using Ø 6/4 mm plastic tubes. The proper range of measuring can be chosen at commissioning.

PEL 1000-N is a differential pressure transmitter with display. The resolution of the digital display is 1 Pa. Displays can be incorporated also after commissioning by replacing the normal cover with a display cover and by connecting the displays to the connector on the printed board card.

The range can be selected at commissioning either 0-1000Pa, S1=ON or 0-500Pa, S1=OFF.

The drift of the 0-point can be eliminated manually by loosing the plastic tubes from the inlets and by pushing the "zero" button on the board inside the device. Note! Please push the "zero" button (about 8 s) until the lamp on the board is on. After releasing the button the lamp is to go off.



Technical data:

Supply	24 Vac/dc 18...28 Vac/dc
Power consumption	24 Vdc max. 0.5 VA 24 Vac max. 1.0 VA
Measuring ranges (selectable at commissioning)	0...500 Pa, S1= OFF 0...1000 Pa, S1= ON (factory.setting)
Output	0...10 Vdc, 3 mA max.
Time constant	4 s
Accuracy	+/- 3 Pa (25 °C) (< 500 Pa)
Temperature drift, typical	< 0,8 Pa/K
Long term stability, typical	< +/- 8 Pa/year
Ambient temperature	0...+50 °C
Max. static / over pressure	25 kPa max.
Housing	IP54, PBT, PC and PA

Wiring:

1	24 Vac/dc supply
2	0 V
3	0...10 Vdc output

Ordering guide:

Model	Product number	Description
PEL 1000	1131140	diff. pressure transmitter for air; ranges 0-500 or 0-1000 Pa
PEL 1000-N	1131141	diff. pressure transmitter for air with display; ranges 0-500 or 0-1000 Pa
PEL-AS	1131010	accessory kit