

## DIFFERENTIAL PRESSURE TRANSMITTER PEL 25K

PEL 25K differential pressure transmitter is designed for detecting pressures and differential pressures in air handling systems.

The zero point is automatically calibrated and compensated approximately every 5 minutes. The recalibration is not normally needed.

The influence of process disturbances (e.g. turbulence) can be damped by selecting suitable time constant (2 s or 8 s).

Connections to the detected process are made by using Ø 6/4 mm plastic hoses. The proper measuring range can be chosen at commissioning. The output signal is directly proportional to the pressure difference between inlets.

PEL 25K-N transmitter display resolution is 10 Pa. The display can be installed also after commissioning by replacing a normal cover with a display cover and by connecting the display to the connector on the circuit board.

Selecting measuring range:

S2	S3	S4	
		■	●●
■	■	0...25 kPa	0...7 kPa
●●	■	0...20 kPa	0...5 kPa
■	●●	0...15 kPa	0...4 kPa
●●	●●	0...10 kPa	0...2 kPa

Selecting time constant:

S1	
●●	2 s
■	8 s

Selecting output signal:

S5	Signal
■	V
●●	mA



### Technical data

Supply	24 Vac/dc (22...28 V)
Power consumption	24 Vdc < 1.0 VA 24 Vac < 1.5 VA
Ranges	0...2 kPa, 0...4 kPa 0...5 kPa, 0...7 kPa 0...10 kPa, 0...15 kPa 0...20 kPa, 0...25 kPa
Output signal	0...10 Vdc, < 2 mA 24 Vdc supply 4...20 mA, < 900 Ω 24 Vac supply 4...20 mA, < 1200 Ω
Accuracy	±20 Pa + ±1 % from the reading (25 °C)
Temperature drift of the range (typ.)	< 0,08 % / K
Error at zero pressure	< ± 20 Pa
Output time constant	2 s or 8 s
Operating temperature	-10...+45 °C
Maximum allowed overpressure	140 kPa
Housing	IP54, polycarbonate

### Wiring:

- 24 Vac/dc
- 0 Vac
- 0...10 Vdc output signal
- 4...20 mA output signal

### Ordering guide:

Model	Product number	Description
PEL 25K	1131220	differential pressure transmitter; automatic 0-point calibration
PEL 25K-N	1131221	differential pressure transmitter with display; automatic 0-point calibration

Products fulfil the requirements of directive 2004/108/EY and are in accordance with the standards EN61000-6-3: 2001 (Emission) and EN61000-6-2: 2001 (Immunity).