

PEL 20K DIFFERENTIAL PRESSURE TRANSMITTER

PEL 20K is a pressure transmitter detecting over - and under pressures and pressure differences of the air-handling system.

The proper range of measuring can be chosen at commissioning. The outputs are directly proportional to the pressure difference between inlets + and -. Connections to the detected process are made by using Ø 6/4 mm plastic tubes.

The drift of the 0-point is compensated by software making regularly and automatically 0-point calibration. No re-calibration is normally needed.

The influence of process disturbances can be damped by selecting suitable time constant (Output delay = 8s).

The resolution of digital displays is 10 Pa. Displays can be incorporated also after commissioning by replacing a normal cover with a display cover and by connecting the displays to the connector on the printed board card.

Due to the IP 54 PC- enclosure PEL can also be used in dusty and wet surroundings.

Ranges, coding and wiring:

Output delay		Range	
S1	2s	S2	S3
		■	■
			■
		■	

		24V	1		
		0V	2		
S5	■	V	3		
	■	mA	4		



Technical data:

Supply	22...28 Vac/dc
Power consumption	24 Vdc < 1.0 VA 24 Vac < 1.5 VA
Measuring ranges choosing at commissioning	0...2kPa 0...4kPa 0...10kPa 0...20kPa
Output signals 24Vdc supply 24Vac supply	0...10 Vdc, < 2 mA 4...20 mA, < 900 Ω 4...20 mA, < 1200 Ω

Inaccuracy	< ± 20Pa ± 1% reading (at 25 °C)
Temperature drift of range, typical	< 0,08 % / K
Error at zero pressure	< ± 20 Pa
Operating temperature	0...45 °C
Max. static / over pressure	140 kPa

Wiring:

1	24 Vac/dc
2	0 Vac
3	0...10 Vdc output signal
4	4...20 mA output signal

Ordering guide:

Model	Product number	Description
PEL 20K	1131120	differential pressure transmitter;
		automatic 0-point calibration
PEL 20K-N	1131121	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).

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