

## **PEL 2500 - DIFFERENTIAL PRESSURE TRANSMITTER**

PEL 2500 is a pressure transmitter for detecting pressures and pressure differences in air handling systems. The pressure measurement is temperature compensated according to the ambient temperature.

Output signal can be selected to be either differential pressure linear or flow (volume) linear.

The M models have RS-485 connection for Modbus RTU communication. ML-SER tool is needed at commissioning for making the Modbus settings.

The transmitter zero point is kept accurate by using the regular automatic zeroing, eliminating the possible zero point drifting. No re-calibration is normally needed.

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

The N models have a backlit display. The display resolution is 0,1 Pa for measured values below 200 Pa and 1 Pa for values over 200 Pa. The display can be added also after commissioning.

Selecting measuring range:

S2	S3	S4		
			••	
		02500 Pa * <sup>)</sup>	0500 Pa	
••		02000 Pa	0200 Pa	
	••	01500 Pa	0100 Pa	
••	••	01000 Pa	±100 Pa	

\*) Factory setting. The 0...2500 Pa range is also used for the custom range setting. The range limits can be changed with the ML-SER tool or via Modbus.

Selecting time constant:

S1	Time constant		
$\bullet \bullet$	2 s		
	8 s *)		

\*) Factory setting.

Selecting the output mode:

Output mode							
pressure linear *)							
flow linear							
*) Factory setting.							
24 Vac/dc 🕨 24V 1							
0 Vac 0V 2							
010 V output < V OUT 3							
420 mA output 🚽 🕅 OUT 4							
A+ 5							
5 B- 6							
els) >>> 0V							



## Technical data:

Supply Measuring ranges

Accuracy

Output (pressure or flow linear)

Communication (M models) Time constant Max. over pressure Pressure connections Operating temperature Display (N models) Housing Dimensions (w x h x d)

24 Vac/dc (22...28 V), 2 VA ± 100 Pa 0...1000 Pa 0...100 Pa 0...1500 Pa 0...200 Pa 0...2000 Pa \*0...2500 Pa 0...500 Pa ±3 Pa ± 1 % of reading (25 °C) \*0...10 / 2...10 / 0...5 Vdc, < 2 mA \*4...20 / 0...20 mA, 700  $\Omega$ Modbus RTU (RS-485) 2 s or \*8 s 13 kPa Ø5 mm 0...+45 °C backlit dot matrix display IP 54, polycarbonate 105 x 102 x 46 \* = factory setting

Ordering guide:		
Model	Product number	Description
PEL 2500	1131210	differential pressure transmitter
PEL 2500-N	1131211	differential pressure transmitter with display
PEL 2500-M	1131370	differential pressure transmitter with Modbus
PEL 2500-M-N	1131371	differential pressure transmitter with Modbus and display
PEL-AS	1131010	PEL accessory kit (2 m hose and duct assemblies)
ML-SER	1139010	transmitter commissioning tool

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

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Information is subject to change without prior notice.