

PEL - DIFFERENTIAL PRESSURE TRANSMITTER

PEL 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.

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 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	
32			• •
		01000 Pa *)	±500 Pa
••		0500 Pa	±250 Pa
	• •	0200 Pa	±100 Pa
••	••	0100 Pa	±50 Pa

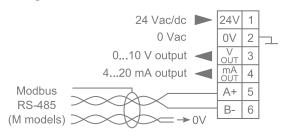
^{*)} Factory setting. The 0...1000 Pa range is also used for the custom range setting. The range limits can be changed with the ML-SER tool or via Modbus.

Selecting time constant:

S1	Time constant	
••	2 s	
	8 s *)	

^{*)} Factory setting.

Wiring:





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Supply	24 Vac/dc (2228 V), 2 VA
Measuring ranges	0100 Pa ±50 Pa
	0200 Pa ±100 Pa
	0500 Pa ±250 Pa
	*01000 Pa ±500 Pa
Accuracy	±0,5 Pa ± 1 %
	of reading (25 °C)
Outputs	*010 / 210 / 05 Vdc,
	< 2 mA
	*420 / 020 mA, 700 Ω
Communication (M models)	Modbus RTU (RS-485)
Time constant	2 s or *8 s
Max. over pressure	74 kPa
Pressure connections	Ø5 mm
Display (N models)	backlit dot matrix display
Operating temperature	0+45 °C
Housing	IP54, polycarbonate
Dimensions (w x h x d)	105 x 102 x 46 mm
	* = factory setting

Ordering guide:

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	Model	Product number	Description
	PEL	1131110	differential pressure transmitter
	PEL-N	1131111	differential pressure transmitter with display
	PEL-M	1131360	differential pressure transmitter with Modbus
	PEL-M-N	1131361	differential pressure transmitter with Modbus and display
	ML-SER	1139010	transmitter commissioning tool

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



www.hitma-instrumentatie.nl info@hitma-instrumentatie.nl +31 (0)297 - 514 833

België / Belgique

www.hitma-instrumentatie.be info@hitma-instrumentatie.be +32 (0)2 - 387 28 64