

PEL 1000 - DIFFERENTIAL PRESSURE TRANSMITTER

PEL 1000 is a pressure transmitter for detecting pressures and pressure differences in air handling systems. The proper measuring range can be chosen at commissioning.

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

The N models have a display. The display resolution is 1 Pa. The display can be added also after commissioning.

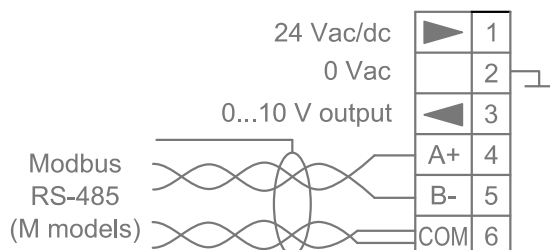
The measurement output (0...10 V or 2...10 V) can be changed to control output by using the ML-SER tool. Accordingly, the controller settings can be changed by using the ML-SER tool.

Selecting measuring range

S1	Range
●●	0...500 Pa
■	0...1000 Pa *)

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

Wiring



Technical data:

Supply	24 Vac/dc (18...28 V), 1 VA
Measuring ranges	0...500 Pa, *0...1000 Pa
Accuracy (25 °C)	± 3 Pa ± 1 % from reading
Output	2...10 / *0...10 Vdc, 2 mA max.
Communication (M models)	Modbus RTU (RS-485)
Time constant	3 s
Long term stability	typ. < ± 8 Pa/year
Operating temperature	0...+50 °C
Maximum over pressure	13 kPa
Pressure connections	Ø5 mm
Housing	IP54, PBT, PC and PA
Dimensions (w x h x d)	89 x 95 x 44 mm
	* = factory setting

Ordering guide:

Model	Product number	Description
PEL 1000	1131140	differential pressure transmitter
PEL 1000-N	1131141	differential pressure transmitter with display
PEL 1000-M	1131380	differential pressure transmitter with Modbus
PEL 1000-M-N	1131381	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).