

KPEL DIFFERENTIAL PRESSURE TRANSMITTER

KPEL is a pressure transmitter for detecting pressures and pressure differences of the air-handling system.

The transmitter has two separate temperature compensated pressure measurements. The pressure range can be selected separately for both measurements.

The pressure measurement accuracy is guaranteed by using the automatic zero point calibration. The zero point can also be calibrated manually.

The transmitter can also be ordered with different automatic/manual zero point calibration configurations.

To order a transmitter with backlit display, add "-N" to the model (e.g. KPEL-2-N). The display resolution is 1 Pa. The display can also be added after commissioning.

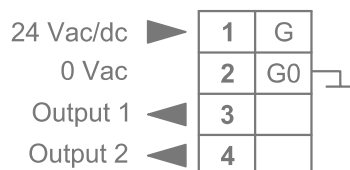
The transmitter can also be used as a controller. The controller settings can be changed by using the ML-SER tool.

Selecting measuring range

S1/S4	S2/S5	S3/S6	
		■	●●
■	■	0...2500 Pa *	0...500 Pa
●●	■	0...2000 Pa	0...200 Pa
■	●●	0...1500 Pa	0...100 Pa
●●	●●	0...1000 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.

Wiring



Technical data:

Supply	24 Vac/dc (22...28 V)
Power consumption	24 Vdc < 2.0 VA 24 Vac < 2.5 VA
Measuring ranges	± 100 Pa 0...1000 Pa 0...100 Pa 0...1500 Pa 0...200 Pa 0...2000 Pa 0...500 Pa *0...2500 Pa
Pressure connections	Ø5 mm
**Outputs	2 x 0...10 Vdc, < 2 mA or 2 x 4...20 mA, < 700 Ω
Accuracy	±3 Pa ±1.25 % of reading (25 °C)
Long term stability	with auto-zeroing ±1 Pa/year without auto-zeroing ±10 Pa/year
Time constant	1...20 s, *8 s
Display (N models)	backlit dot matrix display
Operating temperature	0...50 °C
Max. over pressure	13 kPa
Housing	IP54, polycarbonate

* = factory setting

** = Two terminals for outputs

Ordering guide:

Model	Product number	Description
KPEL	1131310	dual differential pressure transmitter, manual zeroing
KPEL-1	1131320	dual differential pressure transmitter 1 automatic zeroing element
KPEL-2	1131290	dual differential pressure transmitter, 2 automatic zeroing elements
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).