

## **KPEL-M DIFFERENTIAL PRESSURE TRANSMITTER**

KPEL-M is a pressure transmitter for detecting pressures and pressure differences of the air-handling system. The device can be connected to any system that supports Modbus RTU protocol.

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

To order a transmitter with backlit display, add "-N" to the model (e.g. KPEL-M-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 or via Modbus.

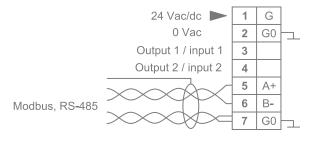
The transmitter outputs can also be changed to inputs which can be read via Modbus. The inputs can be selected to be 0...10 V, digital or temperature inputs. The supported temperature elements are NTC 10, NTC 20, Pt1000, Ni1000 and Ni1000-LG.

## Selecting measuring range

S1/S4	S2/S5	S3/S6		
			••	
		02500 Pa *	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.

## Wiring





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24 Vac/dc (2228	V)
24 Vdc < 2,0 VA	
24 Vac < 2,5 VA	
± 100 Pa	01000 Pa
0100 Pa	01500 Pa
0200 Pa	02000 Pa
0500 Pa	*02500 Pa
Ø5 mm	
2 x 010 Vdc, < 2	mA or
2 x 420 mA, < 70	Ω 00
±3 Pa ±1.25 % of r	eading (25 °C)
±10 Pa/year	
120 s, *4 s	
2 x 010 Vdc / DI	/ temperature
RS-485 Modbus R	TU
backlit dot matrix d	lisplay
050 °C	
13 kPa	
IP54, polycarbonat	e
	24 Vdc < 2,0 VA 24 Vdc < 2,5 VA ± 100 Pa 0100 Pa 0200 Pa 0500 Pa Ø5 mm 2 x 010 Vdc, < 2 2 x 420 mA, < 70 ±3 Pa ±1.25 % of r ±10 Pa/year 120 s, *4 s 2 x 010 Vdc / DI RS-485 Modbus R backlit dot matrix do 050 °C 13 kPa

## Ordering guide:

Model	Product number	Description
KPEL-M	1131260	dual differential pressure transmitter; Modbus, manual zeroing
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).

\* = factory setting

\*\* = Two terminals for outputs/inputs