

VPEL WATER DIFFERENTIAL PRESSURE SENSOR

VPEL differential pressure transmitter is designed for heating and cooling systems (water, glycol and air) pressure measurements in HVAC automation systems. The transmitter can be measured over and under pressure or pressure difference.

The output of 0...10 V or 4...20 mA can be selected by S1 jumper. The range of L or H can be set at the commissioning by S2 jumper.

		• •
Output S1	010 V	420 mA
Range S2	Н	L

Mounting on the wall is made by screws and connections to the detected process by 8 mm copper pipes.

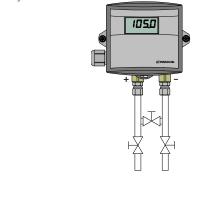
NOTE: Installation must be as shown in the picture, process connections downwards.

Zeroing the measurement of the device

Eliminating the possible zero point drifting can be done by using the zeroing push button and the led on the board. Before this zero point setting the transmitter must be disconnected from the process by closing the valves and the pressure difference between the inputs must be eliminated. The maximum value of ± 10 % of the range can be set to the zero. Bigger drifting will be considered as a sensor fault.

- 1. Close the process connections.
- 2. Open the valve between the measuring connections.
- 3. Press the zeroing button until the indicator light illuminates.
- 4. Release the zeroing button.

The indicator light turns off, when the zeroing was successful. The indicator light flashes, if the device is faulty.





24 Vac/dc, 45 mA (15...32Vac/dc)

0...1.0 bar / 0...2.5 bar (= L/H)

0...4.0 bar / 0...6.0 bar (= L/H) 0...10 Vdc < 8 mA or

4...20 mA < 500 Ω

< 2,5 % of full scale

± 0,03 bar/year

-20...+70 °C

-20...+100 °C

+ connection

brass, ceramics

plastics (polycarbonate)

IP54

16 bar

7,5 bar

18.0 bar

< 0,5 % of full scale / 10 K

manual, by a push button

- connection

5,0 bar

12,0 bar

Technical data:

Supply Ranges VPEL 1.0/2.5 VPEL 4.0/6.0 Output Measuring error

Temperature drifting Long term stability Zero point setting Ambient temperature Allowed medium temp. Protection class Maximum static operation pressure Maximum allowed momentary pressure VPEL 1.0/2.5 VPEL 4.0/6.0 Materials wetting parts case

Wiring:

- 24 Vac/dc supply 1
- 2 ΟV
- 3 0...10 Vdc output
- 4 4...20 mA output

Ordering guide:

Model	Product number	Description
VPEL 1.0/2.5	1134060	diff. pressure transmitter, range 01.0 bar / 02.5 bar
VPEL 1.0/2.5-N	1134061	diff. pressure transmitter. with display, 01.0 bar / 02.5 bar
VPEL 4.0/6.0	1134070	diff. pressure transmitter, range 04.0 bar / 06.0 bar
VPEL 4.0/6.0-N	1134071	diff. pressure transm. with display, range 04.0 bar / 06.0 bar

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).