

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.

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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.

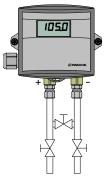
NOTE: Installation must be as shown in the picture, process connections downwards.

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 \pm 10 % of the range can be set to the zero. Bigger drifting will be considered as a sensor fault.

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

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





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 mo-

mentary pressure VPEL 1.0/2.5 VPEL 4.0/6.0

Materials

wetting parts case

24 Vdc, 45 mA (15...32Vdc)

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 < 0,5 % of full scale / 10 K

± 0,03 bar/year

manual, by a push button -20...+70 °C

-20...+100 °C IP54

16 bar

+ connection — connection 7,5 bar 5,0 bar 18,0 bar 12,0 bar

brass, ceramics plastics (polycarbonate)

Wiring:

1 24 Vdc supply

2 0 V

3 0...10 Vdc output

4 4...20 mA output

Ordering guide:

Model	Product
VPEL 1.0/2.5	number 1134060
VPEL 1.0/2.5-N	1134061
VPEL 4.0/6.0	1134070
VPEL 4.0/6.0-N	1134071

Description

diff. pressure transmitter, range 0...1.0 bar / 0...2.5 bar diff. pressure transmitter. with display, 0...1.0 bar / 0...2.5 bar diff. pressure transmitter, range 0...4.0 bar / 0...6.0 bar diff. pressure transm. with display, range 0...4.0 bar / 0...6.0 bar