

VPEL WATER DIFFERENTIAL PRESSURE SENSOR

VPEL transmitters are especially suitable for various HVAC applications, such as measuring of differential pressure between supply and return flow in the heating and cooling systems, monitoring pumps and compressors.

Non-corrosive mediums e.g. water, air and glycol & water solutions are allowed.

Parts contacting measured liquid are brass and ceramics, and the casing is made of plastics (polycarbonate).

The output of 0-10V or 4-20mA can be selected by S1. The range of L or H (1.0 and 2.5 or 4.0 and 6.0 bar) can be set at the commissioning by S2.

Eliminating the possible zero point drifting can be done by using the 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 by loosening the process connections. The maximum value of $\pm 10\%$ of the range can be set to the zero. Bigger drifting will be considered as a sensor fault. When making the zero point setting please push the button as long as the led on the board is lighting. After the light goes OFF the push button can be released.

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

Note! Installation must be as shown in the picture, process connections downwards.



Technical data:

Supply	24 Vac/dc, 45mA (15...32Vac/dc)
Ranges	0...1.0 bar / 0...2.5 bar (= L/H) 0...4.0 bar / 0...6.0 bar (= L/H)
Output	0...10 Vdc < 8 mA or 4...20 mA < 500 ohm
Measuring error	< 2,5% of full scale
Temperature drifting	< 0,5% of full scale / 10K
Long term stability	$\pm 0,03$ bar / year
Zero point setting	manual, by a push button
Ambient temperature	-20...+70 °C
Allowed medium temp.	-20...+100 °C
Max. static oper. press.	16 bar
Protection class	IP 54
Materials	
wetting parts	brass, ceramics
case	plastics (polycarbonate)

Wiring:

1	24 Vac / dc supply
2	0V
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 0-1.0 or 0-2.5 bar
VPEL 1.0/2.5-N	1134061	diff. pressure transm. with display, range 0-1.0 / 0-2.5 bar
VPEL 4.0/6.0	1134070	diff. pressure transmitter, range 0-4.0 or 0-6.0 bar
VPEL 4.0/6.0-N	1134071	diff. pressure transm. with display, range 0-4.0 / 0-6.0 bar