PRODUAL
measure-be sure.

# 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 loosing the process connections. The maximum value of +/- 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)<br>0…4.0 bar / 0...6.0 bar (= L/H) |
| Output | 0...10 Vdc < 8 mA or<br>4…20 mA < 500 ohm |
| Measuring error | < 2,5% of full scale |
| Temperature drifting | < 0,5% of full scale / 10K |
| Long term stability | +/- 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 |

Products fulfill the requirements of directive 2004/108/EY and are in accordance with the standards EN61000-6-3 (Emission) and EN61000-6-2 (Immunity).

gm
**GUEMISA** (Electrónica Guerra y Miró Guemisa S.L.)
Sta. Virgilia, 29 - local - 28033 Madrid (Spain)
Tlfno.: (034) 91 764 21 00 Fax.: (034) 91 764 21 32
Email.: ventas@guemisa.com Web.: www.guemisa.com