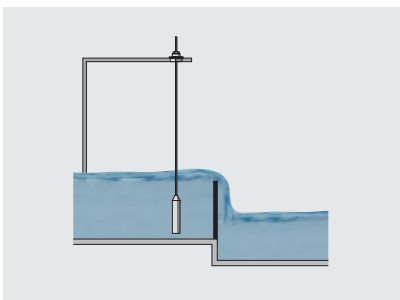
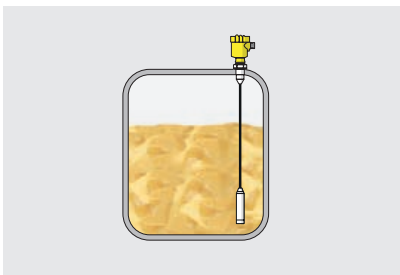




## Hydrostatic



### Area of application



The hydrostatic pressure transmitters VEGAWELL and VEGABAR were specifically designed to measure levels in a wide range of liquids with widely different properties. They can also measure the temperature of the medium.

### Measuring principle

The hydrostatic pressure of the liquid column acts on a pressure measuring cell, which converts it into an electronic signal. Ceramic-capacitive and metallic pressure measuring cells are used for this purpose in the instruments.

### Advantages

Level measurement by means of pressure measurement is totally unaffected by foam or internal vessel installations. The hydrostatic pressure transmitters can be precisely adapted to the process by selecting an appropriate measuring cell and suitable housing materials.

|                     | VEGAWELL 52   | VEGABAR 86  | VEGABAR 87   |
|---------------------|---|---|--|
|                     |    |    |   |
| Application         | Liquids   | Liquids   | Liquids  |
| Sensor diameter     | 22 mm or 32 mm  | 32 mm   | 40 mm  |
| Deviation           | 0.1 %; 0.2 %  | 0.1 %   | 0.1 %  |
| Measuring cell      | CERTEC®/MINI-CERTEC®  | CERTEC®   | METEC®   |
| Process fitting     | Straining clamp, thread, suspension cable, threaded fitting of 316L, PVDF, Duplex, Titanium   | Straining clamp, suspension cable, threaded fitting, thread from G1½, 1½ NPT, flanges from DN 40, 2" of 316L, PVDF  | Straining clamp, suspension cable, threaded fitting, thread from G1½, 1½ NPT, flanges from DN 50, 2" of 316L   |
| Process temperature | -20 ... +80 °C  | -20 ... +100 °C   | -12 ... +100 °C  |
| Measuring range     | 0 ... +60 bar<br>(0 ... +6000 kPa)  | 0 ... +25 bar<br>(0 ... +2500 kPa)  | 0 ... +25 bar<br>(0 ... +2500 kPa)   |
| Overload resistance | up to 150-times measuring range   | up to 200-times measuring range   | up to 150-times measuring range  |
| Signal output       | 4 ... 20 mA<br>4 ... 20 mA/HART + PT 100  | 4 ... 20 mA,<br>4 ... 20 mA/HART, Profibus PA,<br>Foundation Fieldbus   | 4 ... 20 mA,<br>4 ... 20 mA/HART, Profibus PA,<br>Foundation Fieldbus  |
| Display/Adjustment  | PACTware, VEGADIS 82  | PLICSCOM, PACTware,<br>VEGADIS 81, VEGADIS 82   | PLICSCOM, PACTware,<br>VEGADIS 81, VEGADIS 82  |
| Approvals           | ATEX, IEC, FM, CSA, EAC (GOST),<br>UKR Sepro, Overfill protection,<br>Ship  | ATEX, IEC, FM, CSA, EAC (GOST),<br>UKR Sepro, Overfill protection,<br>Ship, SIL2  | ATEX, IEC, FM, CSA, EAC (GOST),<br>UKR Sepro, Overfill protection,<br>Ship, SIL2   |
| Benefit             | <ul style="list-style-type: none"> <li>• High measurement certainty through very high overload and vacuum resistance of the ceramic measuring cell</li> <li>• High plant availability through integrated overvoltage protection</li> <li>• Versatile application thanks to robust housing and cable design</li> </ul> | <ul style="list-style-type: none"> <li>• High plant availability through very high overload and vacuum resistance of the ceramic measuring cell</li> <li>• Self-cleaning effect through front-flush design</li> <li>• Low costs for maintenance and servicing through wear-free ceramic measuring cell</li> </ul> | <ul style="list-style-type: none"> <li>• High measurement certainty even with quickly changing process temperatures</li> <li>• High plant availability through vacuum-proof design</li> <li>• Very good cleanability and high chemical resistance through choice of appropriate materials</li> </ul> |