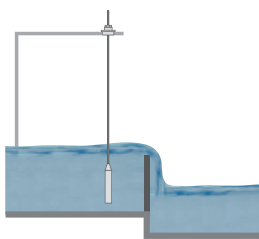
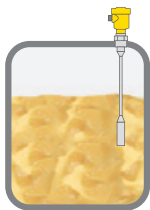




# Hydrostatic



## 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 technology 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 Measuring cell seal	CERTEC®/MINI-CERTEC® FKM, EPDM, FFKM	CERTEC® FKM, EPDM, FFKM	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	Absolute and relative 0 ... +60 bar (0 ... +6000 kPa)	Absolute and relative 0 ... +25 bar (0 ... +2500 kPa)	Absolute and relative 0 ... +25 bar (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 4 ... 20 mA/HART + PT 100	4 ... 20 mA, 4 ... 20 mA/HART, Profibus PA, Foundation Fieldbus, Modbus	4 ... 20 mA, 4 ... 20 mA/HART, Profibus PA, Foundation Fieldbus, Modbus
Display/adjustment	PACTware, VEGADIS 82	PLICSCOM, PACTware, VEGADIS 81, VEGADIS 82, VEGA Tools app	PLICSCOM, PACTware, VEGADIS 81, VEGADIS 82, VEGA Tools app
Approvals	ATEX, IEC, FM, CSA, EAC (GOST), UKR Sepro, Overfill protection, Ship	ATEX, IEC, FM, CSA, EAC (GOST), UKR Sepro, Overfill protection, Ship, SIL2/3	ATEX, IEC, FM, CSA, EAC (GOST), UKR Sepro, Overfill protection, Ship, SIL2/3
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>