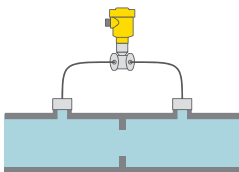
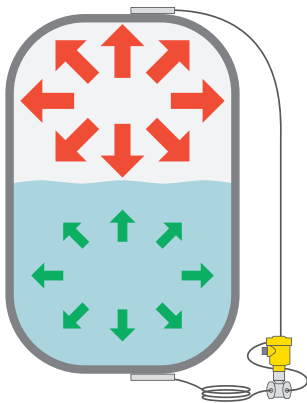
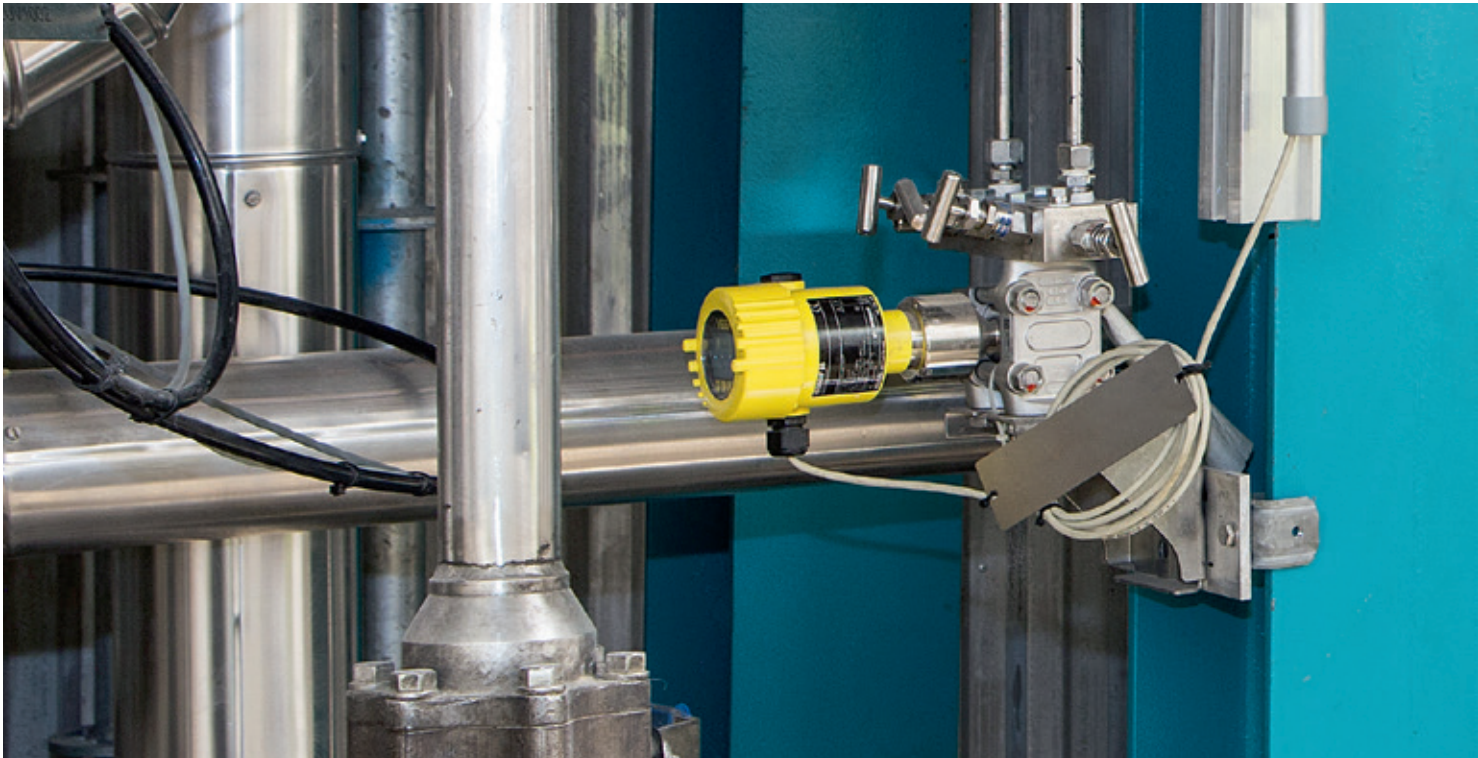


Differential pressure



Differential pressure measurement

In differential pressure measurement, different pressures act on an oil-filled, differential pressure measuring cell from two sides. The instrument converts the differential pressure into an electronic signal.

Pressure, level, density and flow of liquids, suspensions, gases and vapours can be measured using the principle of differential pressure.

The advantages

- ✓ Wide application spectrum thanks to large selection of measuring ranges and process fittings
- ✓ Differential pressure transmitters can detect differential pressures of just a few mbar
- ✓ With a chemical seal installed, media with extreme temperatures can also be safely and reliably measured

PRO

VEGADIF 85



PRO

Chemical seal CSB/CSS



PRO

Electronic differential pressure



Application	Liquids and gases	Liquids and gases	Liquids and gases, even at high pressures and temperatures
Deviation	< ±0.065 %	–	0.2 %; 0.1 %; 0.05 %
Measuring cell	Metallic measuring cell	–	Depending on the sensor of VEGABAR series 80
Process fitting	¼-18 NPT, M10, optional with chemical seal assembly, metallic of 316L, Alloy	Flanges from DN 40, 2" cells from DN 50, 2" of 316L, Alloy, Tantalum	Flanges from DN 25, 1", hygienic fittings, thread from G½ of 316L, Duplex, PVDF, Alloy
Process temperature	-40 ... +105 °C	-40 ... +400 °C	-40 ... +400 °C
Measuring range	-16 ... +16 bar (-1600 ... +1600 kPa)	-16 ... +16 bar (-1600 ... +1600 kPa)	±0.025 ... ±1000 bar (±2.5 ... ±100000 kPa)
Overload resistance	up to 400 bar	up to 400 bar	up to 200-fold measuring range
Signal output	4 ... 20 mA, 4 ... 20 mA/HART, Profibus PA, Foundation Fieldbus	–	4 ... 20 mA/HART, Profibus PA, Foundation Fieldbus
Display/adjustment	PLICSCOM, PACTware/DTM, VEGADIS 81, VEGADIS 82, VEGA Tools app	–	PLICSCOM, PACTware/DTM, VEGADIS 81, VEGADIS 82, VEGA Tools app
Approvals	ATEX, UKEX, IECEx, CSA, EAC (GOST), INMETRO, Overfill protection, Ship, SIL2/3	In combination with VEGADIF 85	ATEX, UKEX, IECEx, FM, CSA, NEPSI, EAC (GOST), INMETRO, CCOE, SEPRO, Overfill protection, Ship, SIL2/3
Benefit	✓ Measurement of extremely low differential pressures through high-precision measurement data acquisition	✓ High chemical resistance through choice of appropriate diaphragm materials	✓ Exact differential pressure measurement without capillary lines