

Pressure

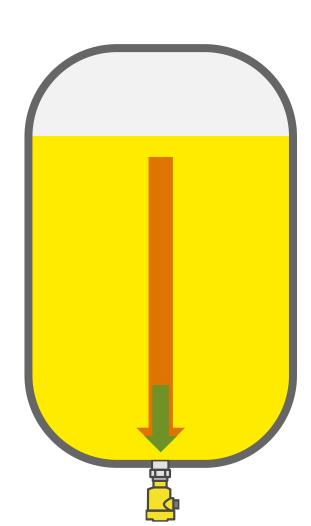
Pressure and differential pressure measurement



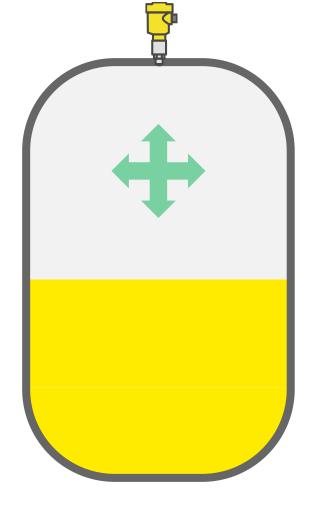


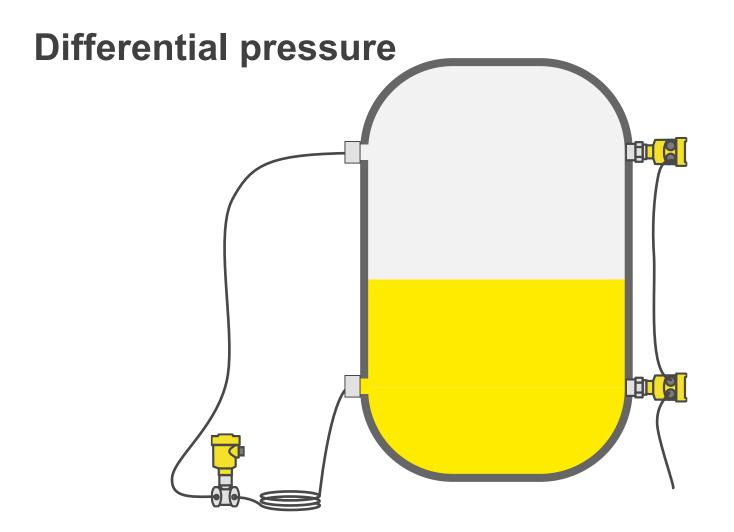
VEGA Pressure solutions

Level

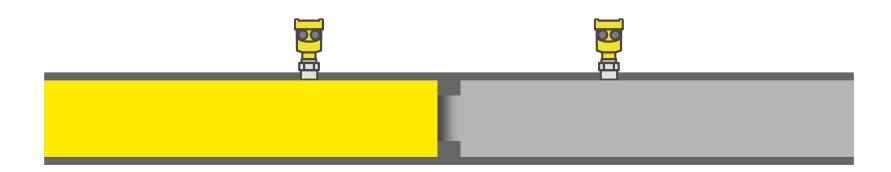


Pressure



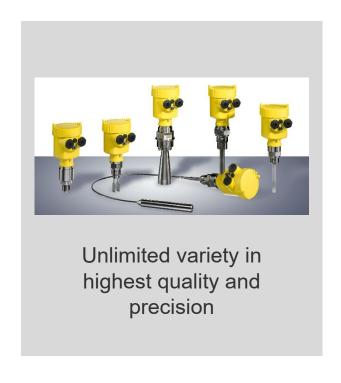


Flow



VEGA Pro vs Basic devices

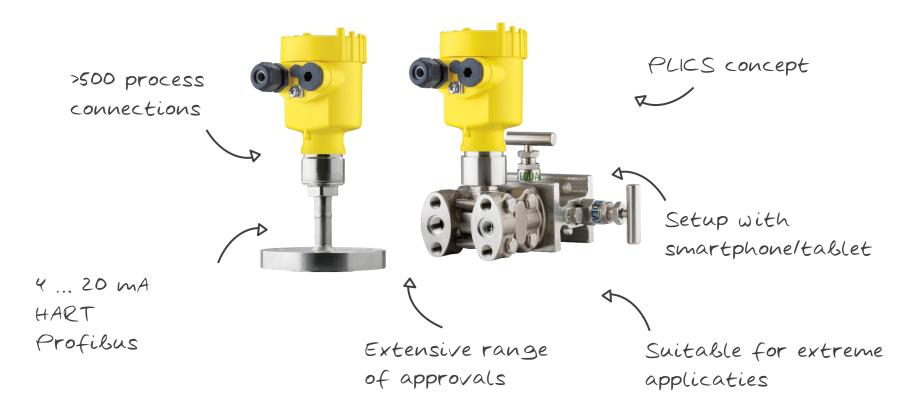
VEGA-product lines





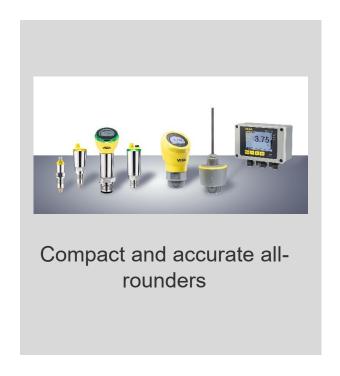
VEGABAR/DIF

(Differential-) Pressure sensor for all applications





VEGA-product lines





VEGABAR 10/20/30

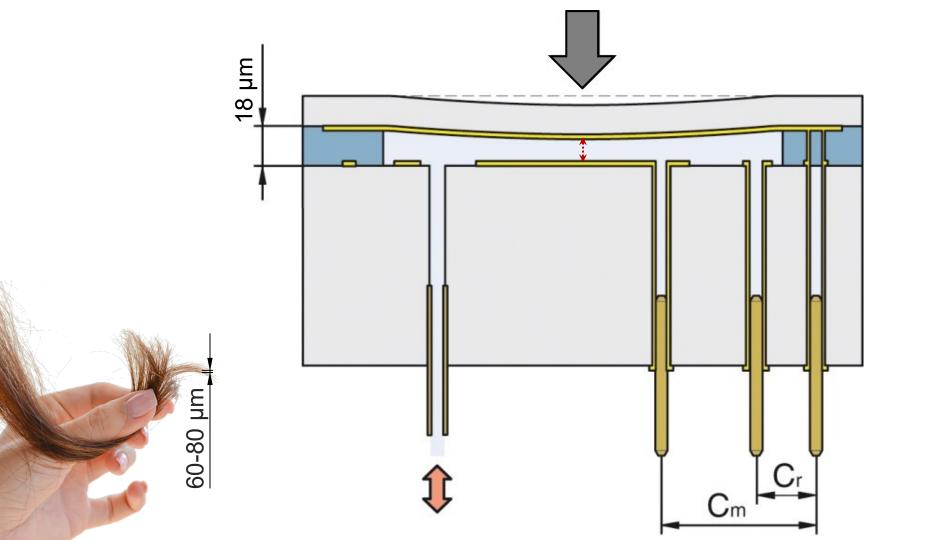
BASIC Line



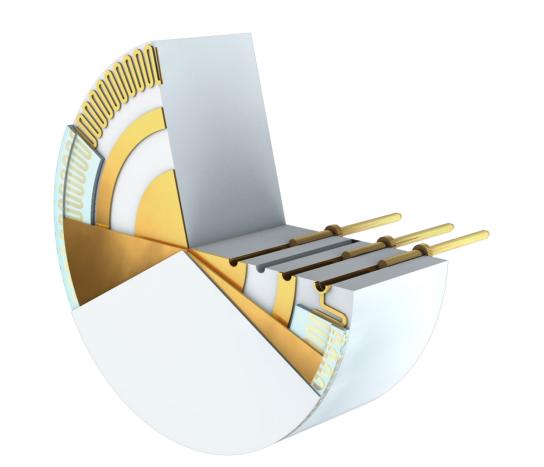


Measuring cells











Overload resistance

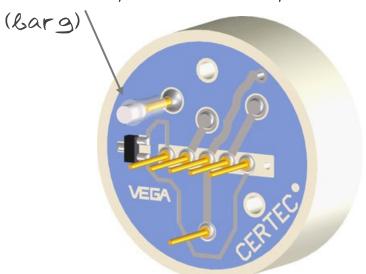


Measuring range	Max pressure	OL Factor	
25 mbar	5 bar	200x	
100 mbar	15 bar	150x	
400 mbar	30 bar	75x	
1 bar	35 bar	35x	
2,5 bar	50 bar	20x	
10 bar	90 bar	9x	
25 bar	130 bar	5x	
100 bar	200 bar	2x	

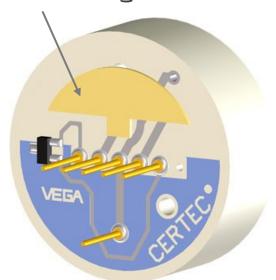
Vacuum Absolute pressure (bara) Relative pressure (barg)

Ambient pressure

Ambient pressure compensation



Hermetically sealed (bara)



VEGABAR 81

The specialist for extreme temperatures



VEGABAR 81

With chemical seal assembly



























VEGABAR 83

The specialist for high pressure



Metallic vs Ceramic

	Metallic	Ceramic	
Overload resistance	+/-	++	
High pressure	++	+/-	
High temperature	++	-	
Abrasion resistance		++	
Low pressure (vacuum)	+/-	++	
Long term stability	+	++	

Elektronic vs classic differential pressure measurement

Differential pressure solutions for all applications





Note: max factor ~20x High static pressure Simple installation Various mounting No thermal possibilities insulation High overload No ambient resistance

influences

Differential pressure VEGADIF 85

Heas. ranges: 10 mbar to 16 bar

Reference accuracy: <0.1 % or <0.065 %



Operating/Process/ Ambient temperature: -40 ... +80 °C

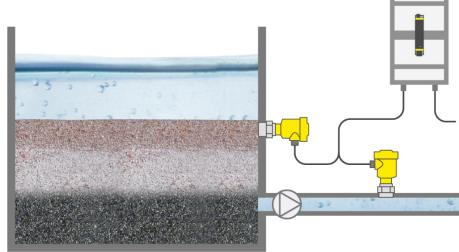
cong-term stability:
co.1 % x TD (5 years)

Electronic differential pressure

Two VEGABAR measuring cells



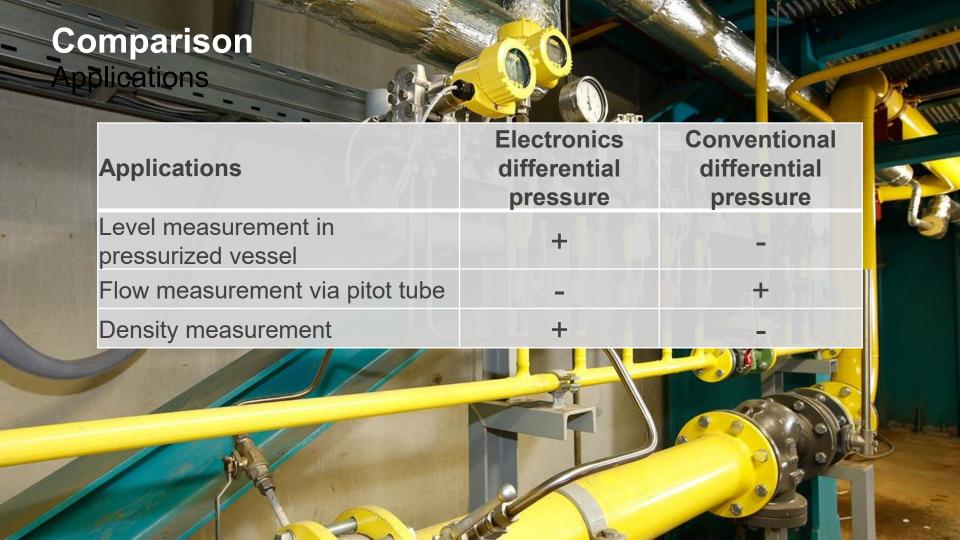




Differential pressure measurement







Comparison

Conditions	Electronic differential pressure	Conventional differential pressure
High temperatures	+	+
Fluctuating process temperature	+	4
Fluctuating ambient temperature	+	(P) - (1)
Abrasive solids	+	MA-
Vacuum	+	-
High static pressure	-//-	+

Questions