## **Pressure conversion table**

	psi	atms.	"H <sub>2</sub> O	mm H <sub>2</sub> O	cm H <sub>2</sub> O	oz/in²	kg/cm²	"Hg	mm Hg (Torr)	cm Hg	mbar	bar	Pa (N/m²)	kPa	MPa
psi	1	0.0680	27.71	703.8	70.31	16	0.703	2.036	51.715	5.17	68.95	0.0689	6.894	6,895	0.0069
atms.	14.7	1	407.2	103.43	1033.23	235.1	1.033	29.92	760	76	1,013	1.013	101,325	101.3	0.1013
"H <sub>2</sub> O	0.0361	0.00246	1	25.4	2.54	0.5775	0.00254	0.0735	1.866	0.187	2.488	0.00249	249.1	0.249	0.00025
mm H <sub>2</sub> O	0.001421	0.000097	0.0394	1	0.1	0.0227	0.0001	0.00289	0.0735	0.00735	0.098	0.000098	9.8	0.0098	0.00001
cm H <sub>2</sub> O	0.01422	0.000968	0.3937	10	1	0.227	0.001	0.0289	0.735	0.0735	0.98	0.00098	98	0.098	0.0001
oz/in²	0.0625	0.00425	1.732	43.98	4.4	1	0.0044	0.1273	3.232	0.3232	4.31	0.00431	431	0.431	0.00043
kg/cm²	14.22	0.968	394.1	10,010	1,000	227.6	1	28.96	735.6	73.56	980.7	0.981	98,067	98.07	0.0981
"Hg	0.4912	0.03342	13.61	345.7	34.57	7.858	0.0345	1	25.4	2.54	33.86	0.0339	3,386	3.386	0.00339
mm Hg (Torr)	0.01934	0.001316	0.536	13.61	1.36	0.31	0.00136	0.0394	1	0.1	1.333	0.001333	133.3	0.1333	0.000133
cm Hg	0.1934	0.01316	5.358	136.1	13.61	3.1	0.0136	0.394	10	1	13.33	0.01333	1,333	1.333	0.00133
mbar	0.0145	0.000987	0.4012	10.21	1.020	0.2321	0.00102	0.0295	0.75	0.075	1	0.001	100	0.1	0.0001
bar	14.504	0.987	401.9	10,210	1,020	232.1	1.02	29.53	750	75	1,000	1	100,000	100	0.1
Pa (N/m²)	0.000145	0.00001	0.00402	0.102	0.0102	0.00232	0.00001	0.000295	0.0075	0.00075	0.01	0.00001	1	0.001	0.000001
kPa	0.14504	0.00987	4.019	102.07	10.207	2.321	0.0102	0.295	7.5	0,75	10	0.01	1,000	1	0.001
МРа	145.04	9.869	4,019	102,074	10.197	2,321	10.2	295.3	7,501	750	10,000	10	1,000,000	1,000	1



Process pressure, Hydrostatic, Differential pressure

## Reliable and strong in service

As a responsible partner, VEGA delivers a comprehensive service: From the development of future-oriented technologies with one to one application consultation, through to support at setup and commissioning and cost-effective instrument operation. Even for the most challenging scenarios, VEGA can engineer the right solution to meet your application.

Services to save you money and time:

- Selection expert, solution-oriented advice
- Delivery fast order processing and supply
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  Operation reliable level and pressure measurement
- Service qualified support around the clock

Overview of pressure instrumentation

43219-FN-13





Process pressure and hydros	tatic		Electronic differential pressure
The specialist for	The all-rounder	The specialist for	Electronic differential
extreme temperatures  Hot and chemically aggressive media are measured very reliably by the VEGABAR 81 model.	The all-rounder VEGABAR 82, enables measurement of pressures and levels even in the most difficult processes.	high pressure VEGABAR 83 is the first choice for process pressure or level measurement in processes with high pressures.	An innovative software and hardware concept makes it possible to combine any pair of sensors from the VEGABAR 80 series into an electronic differential pressure system.
Measuring range -1 +1,000 bar	-1 +100 bar	-1 +1,000 bar	+0.025 +1,000 bar
<b>Deviation</b> 0.2 %	0.2 %; 0.1 %; 0.05 %	0.2 %; 0.1 %; 0.075 %	0.2 %; 0.1 %; 0.05 %
Temperature range -90 +400 °C	-40 +150 °C	-40 +200 °C	-40 +400 °C
Output signal			
4 20 mA, 4 20 mA/HART, Profibus PA, Foundation Fieldbus, Modbus	4 20 mA, 4 20 mA/HART, Profibus PA, Foundation Fieldbus, Modbus	4 20 mA, 4 20 mA/HART, Profibus PA, Foundation Fieldbus, Modbus	4 20 mA/HART, Profibus PA, Foundation Fieldbus
Approvals ATEX, IEC, CSA, FM, Ship, Overfill protection, GOST	ATEX, IEC, CSA, FM, Ship, Overfill protection, GOST	ATEX, IEC, CSA, FM, Ship, Overfill protection, GOST	ATEX, IEC, CSA, FM, Ship, Overfill protection, GOST
VEGABAR 81 Process pressure transmitter with chemical seal system	VEGABAR 82 Process pressure transmitter with ceramic measuring cell	VEGABAR 83 Process pressure transmitter with metallic measuring cell	VEGABAR series 80 Electronic differential pressure system
Your advantage  • Simple adaptation to process, as sensor is extremely versatile and configurable  • Reliable measurement at temperatures up to +400 °C  • High safety and reliability through proven technology	High plant availability through maximum overload and vacuum resistance of the ceramic measuring cell     Measurement right down to the last drop thanks to very small measuring ranges with	Excellent accuracy, even with fluctuating process temperatures     High measurement certainty through vacuum-resistant design	Combinations from the VEGABAR 80 series Universally applicable Wear-free ceramic measuring cell

through proven technology

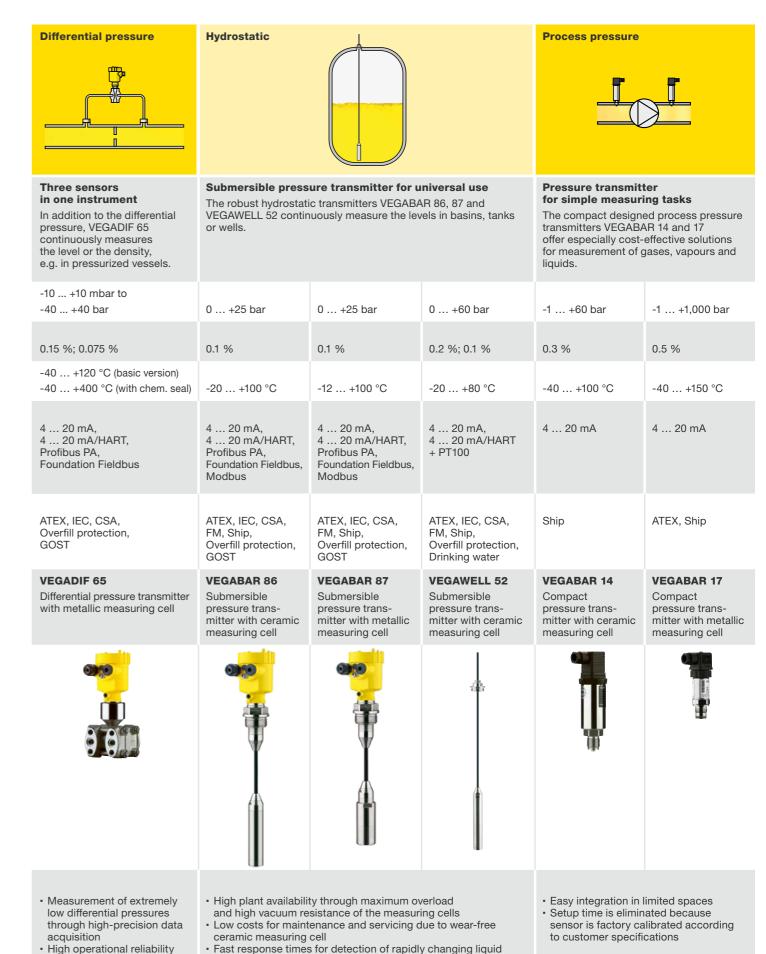
small measuring ranges with

Low costs for maintenance

and servicing due to wear-

free ceramic measuring cell

high accuracy



through integrated overload

Many applications possible

thanks to wide selection

of measuring ranges and process fittings

diaphragm