



Reliable

Reliable measurement resistant to highly-corrosive potash lye

Cost effective

Precise level and pressure measurement for efficient output regulation

User friendly

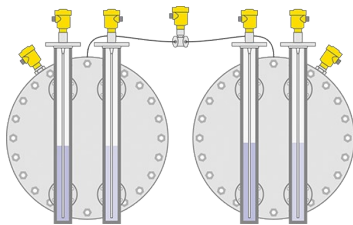
Direct installation in the tank or in a bypass tube

Alkaline electrolyser (AEL)

Level and pressure measurement in the alkaline electrolyser

In the electrolyser, renewable energy is used to split water (H₂O) into its individual components hydrogen (H) and oxygen (O). Green hydrogen is thus produced in a CO₂-free cycle. In the alkaline electrolyser, potash lye acts as the electrolyte, which is not consumed in the process. Oxygen is produced as a by-product. Level measurement is used to regulate both the concentration of electrolyte and the inflow of water. Highly resistant pressure sensors are used to monitor the overpressure in the two electrolyte tanks, as well as the differential pressure between the two tanks.

More details



VEGAFLEX 83

Level measurement with guided radar for regulating the electrolyte level and the water intake

- Reliable measurement, even with small measuring ranges
- High resistance to aggressive potash lye
- Sensor version for high-purity oxygen applications (EIGA 33/18 and ASTM G93) also available

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VEGABAR 82

Pressure sensor for pressure monitoring in an electrolyte tank

- Long-term stability on pressure measurement up to 100 bar
- Highly resistant process fittings of PVDF or PEEK
- Reliable pressure monitoring via oil-free ceramic measuring cell

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VEGADIF 85

Differential pressure measurement between the two electrolyte tanks

- Suitable for oxygen and hydrogen
- Optional gold coating of the diaphragm reduces diffusion
- Output of differential as well as static pressure through a second current output

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PRO	PRO	PRO
VEGAFLEX 83 Show Product	VEGABAR 82 Show Product	VEGADIF 85 Show Product
		
Measuring range - Distance 32 m	Measuring range - Distance -	Measuring range - Pressure -40 ... 40 bar
Process temperature -40 ... 150 °C	Measuring range - Pressure -1 ... 100 bar	Process temperature -40 ... 105 °C
Process pressure -1 ... 16 bar	Process temperature -40 ... 150 °C	Process pressure -1 ... 400 bar
Accuracy ± 2 mm	Process pressure -1 ... 100 bar	Accuracy 0.065 %
Version Rod ø 10 mm, PFA-coated Exchangeable rod ø 8 mm, polished Exchangeable rod ø 8 mm, electropolished Exchangeable rod ø 8 mm, electropolished, can be autoclaved Cable ø 4 mm with gravity weight, PFA-coated	Accuracy 0.05 %	Materials, wetted parts 316L Tantalum Alloy C276 (2.4819) Monel
Materials, wetted parts PFA 316L TFM-PTFE	Materials, wetted parts PVDF 316L Alloy C22 (2.4602) PP 1.4057 1.4410 Alloy C276 (2.4819) Duplex (1.4462) Titanium Grade 2 (3.7035)	Threaded connection ¼ - 18 NPT
Flange connection ≥ DN25, ≥ 1"	Threaded connection ≥ G¼, ≥ ¼ NPT	Flange connection ≥ DN32, ≥ 1½"
Hygienic fittings Clamp ≥ 2", DN50 - DIN32676, ISO2852 Clamp ≥ 3", DN65 - DIN32676, ISO2852 Slotted nut ≥ 1½", ≥ DN40 - DIN 11851 Slotted nut ≥ 2", DN50 - DIN 11851 Varivent ≥ DN25 Hygienice flange connection ≥ DN50 DIN11864-2 Swagelok VCR screwing Hygienic collar clamp ≥ DN33 - DIN 11864-3 Safety ingold	Flange connection ≥ DN15, ≥ ½"	Seal material EPDM FKM Copper
Seal material EPDM FKM FEPM	Hygienic fittings Clamp ≥ 1" - DIN32676, ISO2852 Slotted nut ≥ DN25 - DIN 11851 hygienic fitting with tension flange DN32 hygienic fitting F40 with compression nut DRD connection ø 65 mm SMS 1145 DN51 SMS DN38 Swagelok VCR screwing Varivent G125 Varivent N50-40 for NEUMO BioControl D50 PN16 / 316L	Housing material Plastic Aluminium Stainless steel (precision casting) Stainless steel (electropolished)
Housing material Plastic Aluminium Stainless steel (precision casting) Stainless steel (electropolished)	Seal material EPDM FKM FFKM	Protection rating IP66/IP68 (0,2 bar) IP66/IP67 IP66/IP68 (1 bar)