



**Reliable**

Reliable measurement resistant to highly-corrosive potash lye

**Cost effective**

Precise level and pressure measurement for efficient output regulation

**User friendly**

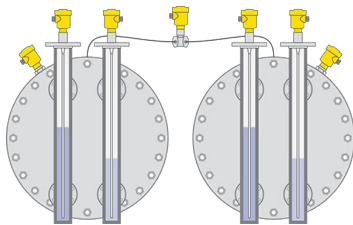
Direct installation in the tank or in a bypass tube

## Alkaline electrolyser (AEL)

### Level and pressure measurement in the alkaline electrolyser

In the electrolyser, renewable energy is used to split water (H<sub>2</sub>O) into its individual components hydrogen (H) and oxygen (O). Green hydrogen is thus produced in a CO<sub>2</sub>-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
<b>VEGAFLEX 83</b> <a href="#">Show Product</a>	<b>VEGABAR 82</b> <a href="#">Show Product</a>	<b>VEGADIF 85</b> <a href="#">Show Product</a>
		
<b>Measuring range - Distance</b> 32 m	<b>Measuring range - Distance</b> -	<b>Measuring range - Pressure</b> -40 ... 40 bar
<b>Process temperature</b> -40 ... 150 °C	<b>Measuring range - Pressure</b> -1 ... 100 bar	<b>Process temperature</b> -40 ... 105 °C
<b>Process pressure</b> -1 ... 16 bar	<b>Process temperature</b> -40 ... 150 °C	<b>Process pressure</b> -1 ... 400 bar
<b>Accuracy</b> ± 2 mm	<b>Process pressure</b> -1 ... 100 bar	<b>Accuracy</b> 0.065 %
<b>Version</b> 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	<b>Accuracy</b> 0.05 %	<b>Materials, wetted parts</b> 316L Tantalum Alloy C276 (2.4819) Monel
<b>Materials, wetted parts</b> PFA 316L TFM-PTFE	<b>Materials, wetted parts</b> PVDF 316L Alloy C22 (2.4602) PP 1.4057 1.4410 Alloy C276 (2.4819) Duplex (1.4462) Titanium Grade 2 (3.7035)	<b>Threaded connection</b> ¼ - 18 NPT
<b>Flange connection</b> ≥ DN25, ≥ 1"	<b>Threaded connection</b> ≥ G½, ≥ ½ NPT	<b>Flange connection</b> ≥ DN32, ≥ 1½"
<b>Hygienic fittings</b> 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	<b>Flange connection</b> ≥ DN15, ≥ ½"	<b>Seal material</b> EPDM FKM Copper
<b>Seal material</b> EPDM FKM FEPM	<b>Hygienic fittings</b> 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	<b>Housing material</b> Plastic Aluminium Stainless steel (precision casting) Stainless steel (electropolished)
<b>Housing material</b> Plastic Aluminium Stainless steel (precision casting) Stainless steel (electropolished)	<b>Seal material</b> EPDM FKM FFKM	<b>Protection rating</b> IP66/IP68 (0,2 bar) IP66/IP67 IP66/IP68 (1 bar)