



### Reliable

Reliable measurement even with oxygen and hydrogen gasses

### Cost effective

Precise measuring results for efficient regulation of the process

### User friendly

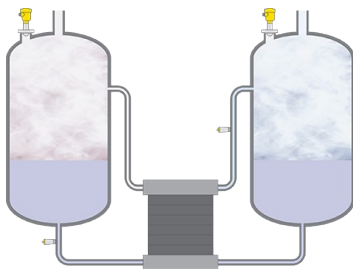
Direct installation in small tanks with internal structures

## PEM electrolyser

### Level and pressure measurement in the PEM 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. The PEM electrolyser, uses a proton exchange membrane that is continuously flushed with ultrapure water. An electrical potential causes protons to migrate through the membrane. Hydrogen is produced on the cathode side and oxygen on the anode side. On the oxygen side, level measurement is used to regulate the ultrapure water. On the hydrogen side, it monitors the excess water. The pressure sensors monitor the pressure in the feed line on the oxygen side and in the discharge line on the hydrogen side.

[More details](#)



### VEGABAR 28

Pressure measurement in the inlet and outlet of the PEM electrolyser

- Reliable measurement of hydrogen and oxygen
- Simple setup and commissioning via Bluetooth
- Resistance to internal ignition in oxygen applications available as per 'BAM assessment'

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### VEGAPULS 6X

Level measurement with radar for regulation of water quantities

- Reliable measurement thanks to non-contact measuring principle
- High plant availability, because sensor is wear and maintenance free
- Sensor version for high-purity oxygen applications (EIGA 33/18 and ASTM G93) also available

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## BASIC

## PRO

**VEGABAR 28**  
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**Measuring range - Pressure**  
-1 ... 60 bar

**Process temperature**  
-40 ... 130 °C

**Accuracy**  
0.3 %

**Materials, wetted parts**  
PVDF  
Duplex (1.4462)  
Ceramic  
316/316L

**Threaded connection**  
≥ G½, ≥ ½ NPT

**Hygienic fittings**  
Clamp ≥ 2", DN50 - DIN32676, ISO2852  
Clamp ≥ 1" - DIN32676, ISO2852  
Clamp ≥ 1½" - DIN32676, ISO2852  
Slotted nut ≥ DN25 - DIN 11851  
Slotted nut ≥ DN32 - DIN 11851  
SMS 1145 DN51  
SMS DN38  
Hygienic fittings ≥ DN25 - DIN11864-1-A  
Hygienic fittings ≥ DN40 - DIN11864-1-A  
Varivent N50-40  
SMS DN25  
Ingold connection PN10  
Varivent F25

**Seal material**  
EPDM  
FKM  
FFKM

**Protection rating**  
IP65  
IP68 (0,5 bar)/IP69

**Output**  
4 ... 20 mA  
Three-wire (PNP/NPN, 4 ... 20 mA)  
IO-Link

**Ambient temperature**  
-40 ... 70 °C

**VEGAPULS 6X**  
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**Measuring range - Distance**  
120 m

**Process temperature**  
-196 ... 450 °C

**Process pressure**  
-1 ... 160 bar

**Accuracy**  
± 1 mm

**Frequency**  
6 GHz  
26 GHz  
80 GHz

**Beam angle**  
≥ 3°

**Materials, wetted parts**  
PTFE  
PVDF  
316L  
PP  
PEEK

**Threaded connection**  
≥ G¾, ≥ ¾ NPT

**Flange connection**  
≥ DN20, ≥ ¾"

**Hygienic fittings**  
Clamp ≥ 1½" - DIN32676, ISO2852  
Slotted nut ≥ 2", DN50 - DIN 11851  
Varivent ≥ DN25  
hygienic fitting with tension flange DN32  
hygienic fitting F40 with compression nut  
Hygienic screw connections ≥ DN50 tube ø53 -  
DIN11864-1-A  
Hygienic flange connection ≥ DN50 DIN11864-2  
Hygienic clamp connection ≥ DN50 pipe Ø53 - DIN11864-  
3-A  
DRD connection ø 65 mm  
SMS 1145 DN51