



### Reliable

Reliable measurement, independent of the process conditions

### Cost effective

Resistant materials deliver long service life

### User friendly

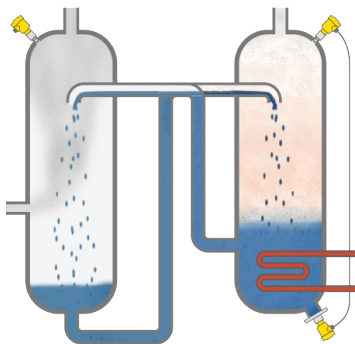
One sensor, two measured values: ceramic cell measures temperature and pressure

## Gas scrubber

### Level and pressure measurement in gas scrubbers

Carbon dioxide is separated from a gas mixture via two scrubbing columns. The gas mixture consisting of nitrogen, hydrogen and carbon dioxide passes through a gas pipeline into the first stage gas scrubber. An added solvent, usually aniline, binds with the carbon dioxide, which is then forwarded in liquid form to a gas scrubber or 'desorber' where it is "washed" out of the liquid. The process pressure is monitored during the absorption process, which takes place at high pressure and low temperature. The actual separation of the carbon dioxide from the liquid, however, is carried out under low pressure and high temperature, where the level of the liquid needs to be kept as constant as possible.

[More details](#)



### VEGABAR 83

Pressure transmitter for monitoring pressure in the gas scrubber

- Reliable measurement independent of high pressures
- High chemically resistant measuring cell ensures long-term plant operation
- Special seals prevent diffusion by ammonia

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### VEGABAR 82

Level measurement by means of electronic differential pressure

- Reliable measurement independent of tank internals
- Integrated temperature sensor saves cost of additional temperature measuring instruments
- Excellent plant availability with high overload capacity ceramic CERTEC® measuring cell

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PRO

**VEGABAR 83**  
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**Measuring range - Distance**

-

**Measuring range - Pressure**

-1 ... 1000 bar

**Process temperature**

-40 ... 200 °C

**Process pressure**

-1 ... 1000 bar

**Accuracy**

0.075 %

**Materials, wetted parts**

316L  
 Alloy C22 (2.4602)  
 316Ti (1.4571)  
 Alloy C4 (2.4610)

**Threaded connection**

≥ G½, ≥ ½ NPT

**Flange connection**

≥ DN25, ≥ 1"

**Hygienic fittings**

Slotted nut ≥ DN25 - DIN 11851  
 Varivent ≥ DN25  
 hygienic fitting with tension flange DN32  
 Hygienice flange connection ≥ DN50 DIN11864-2  
 SMS 1145 DN51  
 SMS DN38  
 Hygienic fittings ≥ DN33 - DIN11864-1-A  
 Hyg. collar clamp adapter DN40PN40 DIN11864-3-A  
 Hyg. clamp connection DIN11864-3-A; DN50 Rohr ø53  
 Swagelok VCR screwing  
 Varivent G125

**Seal material**

no media contact

PRO

**VEGABAR 82**  
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**Measuring range - Distance**

-

**Measuring range - Pressure**

-1 ... 100 bar

**Process temperature**

-40 ... 150 °C

**Process pressure**

-1 ... 100 bar

**Accuracy**

0.05 %

**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**

≥ G¼, ≥ ¼ NPT

**Flange connection**

≥ DN15, ≥ ½"

**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

**Seal material**

EPDM  
 FKM  
 FFKM