



#### Reliable

Accurate readings under all process conditions in the fermenter

#### Cost effective

Level and pressure measurement using electronic differential pressure provides all relevant measurement data

#### User friendly

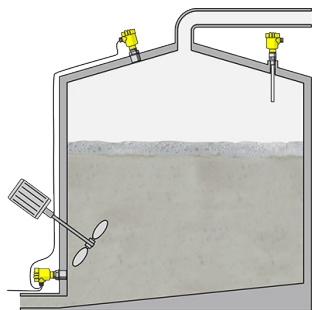
Simple mounting and setup

## Fermentation in the ethanol plant

### Level, switching and pressure measurement in the conversion process for alcohol production

The heart of the ethanol plant is the fermentation process. This is where the sugars in the mash are converted into alcohol, which, in the subsequent distillation process, is then concentrated to a strength of 99.9 %. The CO<sub>2</sub> gas given off by the fermentation is captured and used for carbonation in the beverage industry. To keep the fermenter vessel operating in its optimal range, reliable monitoring of the process parameters including the vessel level and overall pressure is required.

[More details](#)



#### VEGABAR 82

Measurement of the level and gauge pressure during mash fermentation with electronic differential pressure

- High abrasion resistance thanks to ceramic materials
- Different measuring cells enable application oriented selection
- Easy cleaning thanks to front-flush measuring cells

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#### VEGACAP 64

Capacitive point level detection of the mash in the fermentation process

- Reliable foam detection, regardless of consistency
- Unaffected by buildup, even with product deposits and thick foam
- Adjustment-free setup and commissioning minimizes costs

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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**
≥ G $\frac{1}{2}$ , ≥  $\frac{1}{2}$  NPT
**Flange connection**
≥ DN15, ≥  $\frac{1}{2}$ "
**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

PRO

**VEGACAP 64**  
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**Measuring range - Distance**

-

**Process temperature**

-50 ... 200 °C

**Process pressure**

-1 ... 64 bar

**Version**

PTFE insulation

**Materials, wetted parts**

PTFE  
 316L  
 Alloy C22 (2.4602)  
 Steel C22.8

**Threaded connection**
≥ G $\frac{3}{4}$ , ≥  $\frac{3}{4}$  NPT
**Flange connection**

≥ DN25, ≥ 1"

**Seal material**

no media contact

**Housing material**

Plastic  
 Aluminium  
 Stainless steel (precision casting)  
 Stainless steel (electropolished)

**Protection rating**

IP66/IP68 (0,2 bar)  
 IP66/IP67  
 IP66/IP68 (1 bar)