



Reliable

High measurement certainty without mechanical wear

Cost effective

Optimal information on the available gas quantity

User friendly

Maintenance-free, reliable operation of the facility

Biogas storage facility

Volume and pressure monitoring in the biogas storage facility

The methane gas extracted from the digestion tank is temporarily stored in a gas reservoir. Depending on the design of the gas storage facility, either a flexible diaphragm of plastic or a floating roof is used for volume equalization. The gas volume and gas pressure are measured continuously to ensure reliable and safe operation.

More details



VEGAPULS 6X

Continuous level measurement with radar for permanent gas volume measurement

- Reliable, maintenance-free measurement
- Independent of environmental influences
- Easy integration into existing gas storage facilities
- Wireless operation via Bluetooth with smartphone, tablet or PC

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Monitoring of the gas pressure in the gas reservoir

- High measuring accuracy through use of finely graduated measuring cells
- Robust sensor construction for high availability
- Long-term stability of the ceramic measuring cell ensures maintenance-free operation

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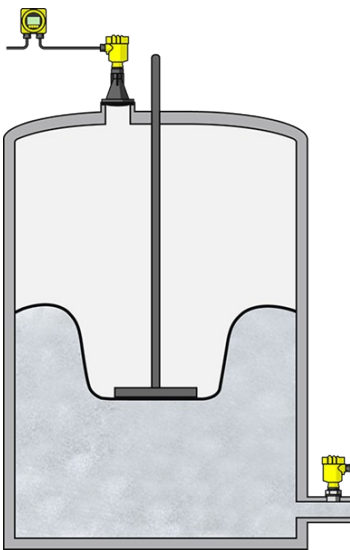


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Separator for the optimum supply of power to the connected sensors

- On-site diagnostics for direct display of status via LEDs
- Simple parametrization interface using the HART sockets for user-friendly operation
- Galvanic separation of sensors and PLC is secured

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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
 ≥ G $\frac{3}{4}$, ≥ $\frac{3}{4}$ NPT

Flange connection
 ≥ DN20, ≥ $\frac{3}{4}$ "

Hygienic fittings
 Clamp ≥ 1 $\frac{1}{2}$ " - 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

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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

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Protection rating
 IP20

Input
 1 x 4 ... 20 mA/HART sensor input

Output
 1 x 4 ... 20 mA

Ambient temperature
 -20 ... 60 °C

VEGA