Reliable

High measurement certainty without mechanical wear

Cost effective

Optimal information on the available gas quantity

User friendly

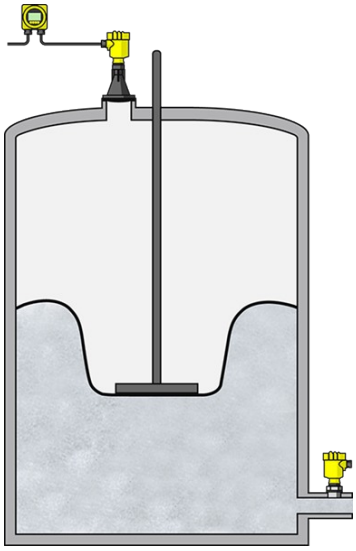
Maintenance-free, reliable operation of the facility

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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VEGATRENN 141

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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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"

Hygenic 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
Hygienice flange connection ≥ DN50 DIN11864-2
Hygienic clamp connection ≥ DN50 pipe Ø53 - DIN11864-3-A
DRD connection ø 65 mm
SMS 1145 DN51

PRO

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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
≥ G½, ≥ ½ NPT

Flange connection
≥ DN15, ≥ ½"

Hygenic 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