



Reliable

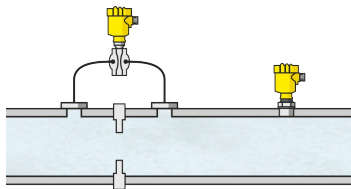
Reliable monitoring of flow rate

Cost effective

Detailed information on the amount of gas produced

User friendly

Maintenance-free operation of the sensor technology



Gas pipeline

Flow meter for sludge gas

The biogas generated from sewage sludge is used for environmentally friendly production of heat and electricity. It is transported to the storage tanks through a gas pipeline.

More details



VEGABAR 82

Monitoring of gas pressure

- Sensor provides intrinsically safe output signal
- Meets the requirements of ATEX EEx ia IIC T6
- Maintenance-free operation through long-term stability of the ceramic measuring cell

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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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VEGADIF 85

Measurement of gas volume that is taken from the digester

- Detection of the gas volume with standard orifice plate and differential pressure transmitter
- Simple adaptation to existing systems through different orifice plate dimensions
- Reliable measurement and maintenance-free operation

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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 $\frac{1}{4}$, ≥ $\frac{1}{4}$ 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

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Measuring range - Pressure

-40 ... 40 bar

Process temperature

-40 ... 105 °C

Process pressure

-1 ... 400 bar

Accuracy

0.065 %

Materials, wetted parts

316L
 Tantalum
 Alloy C276 (2.4819)
 Monel

Threaded connection
 $\frac{1}{4}$ - 18 NPT
Flange connection
≥ DN32, ≥ $1\frac{3}{8}$ "
Seal material

EPDM
 FKM
 Copper

Housing material

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

Protection rating

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