



#### Reliable

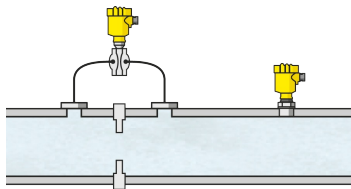
Reliable monitoring of flow rate

#### 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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**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**

≥ G½, ≥ ½ 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

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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

**VEGADIF 85**  
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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**

¼ - 18 NPT

**Flange connection**

≥ DN32, ≥ 1½"

**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)