Compact slurry tanks in biogas plants

Reliable
Trouble-free operation of the fermenter with technology

Cost effective
Long service life ensured through non-contact measuring method

User friendly
Easy installation and retrofit, through external vessel mounting

Level measurement in energy production from waste

Biogas plants convert a mixture of organic waste and renewable raw materials into valuable energy through fermentation using a largely CO2 neutral process. Optimal consumption of the resources and maintenance-free operation require the use of highly reliable measurement technology. In all production steps – from the delivery of raw materials and waste to the removal of residues – the levels must be closely and accurately monitored.

VEGAPULS C 21

Non-contact level measurement with radar in the slurry tank of a biogas plant.

- Radar measurement is completely independent of ambient conditions
- Non-contact measurement allows maintenance-free operation
- Simple mounting reduces installation costs

VEGAWELL 52

Hydrostatic level measurement with submersible pressure transmitter

- High durability ensures long service life
- Hydrostatic measurement independent of surface foam
- Simple setup and commissioning reduces costs

VEGAPULS C 21	VEGAWELL 52
Measuring range - Distance 15 m	Measuring range - Pressure 0 ... 60 bar
Process temperature -40 ... 80 °C	Process temperature -20 ... 80 °C
Process pressure -1 ... 3 bar	Process pressure -
Accuracy ± 2 mm	Accuracy 0.1 %
Frequency 80 GHz	Materials, wetted parts PVDF 316L Duplex (1.4462) FEP PE 1.4301 Titanium
Beam angle 8°	Seal material EPDM FKM FFKM
Materials, wetted parts PVDF	Protection rating IP66/IP67 IP68
Threaded connection G1½ / G1, 1½ NPT / 1 NPT, R1½ / R1	Output 4 ... 20 mA 4 ... 20 mA/HART - two-wire
Seal material FKM	Ambient temperature -40 ... 80 °C
Protection rating IP66/IP68 (3 bar), Type 6P	