Reliable

Reliable level measurement and protection against foam overfill

Cost effective

Continuous, maintenance-free operation of the digester

User friendly

Low maintenance costs and reliable gas production

Digester

Level measurement and point level detection of foam in the digester

The organic components of sewage sludge are decomposed under anaerobic conditions in heated, closed digestion tanks. In the process, combustible gases such as methane are released from the sludge. These are collected in a biogas tank and then converted into electricity and heat in cogeneration (CHP) plants. A level sensor controls the filling of the digester. To ensure that no foam gets into the gas system along with the collected gas, a point level sensor is used for monitoring.

More details

VEGAPULS 6X

Level measurement with radar for control of the filling process

- Maintenance-free operation through non-contact measurement
- Accurate and reproducible measurement data, independent of gas concentration and pressure fluctuations
- Reliable measurement, even with foam and density changes
- Wireless operation via Bluetooth with smartphone, tablet or PC

Show Product

VEGACAP 64

Detection of the conductive foam prevents it from entering the gas facility

- Reliable foam detection, even with different foam consistencies
- Unaffected by contamination and buildup
- Simple mounting and setup

Show Product

VEGATOR 141

Double channel signal conditioning instrument for level detection

- Simple adjustment of the switching point through a potentiometer
- Clearly visible switching status via LED
- Simple installation through carrier rail mounting as well as detachable, coded terminals

Show Product

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

Show Product

VEGA HOME OF VALUES

PRO

VEGAPULS 6X

Show Product

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

VEGACAP 64

Show Product

Measuring range - Distance
-

Process temperature
-50 ... 200 °C

Process pressure
-1 ... 64 bar

Version
PTFE insulation

Materials, wetted parts
PTFE
316L
Alloy C22 (2.4602)
Steel C22.8

Threaded connection
≥ G¾, ≥ ¾ NPT

Flange connection
≥ DN25, ≥ 1"

Seal material
no media contact

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

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

VEGATOR 141

Show Product

Protection rating
IP20

Input
1 x 4 … 20 mA sensor input

Output
1 x operating relay (SPDT)
Optionally 1 x fail safe relay output (SPDT)

Ambient temperature
-20 ... 60 °C

Signal input (specify)
4 … 20 mA

Signal output (specify)
Operating relay
Fail safe relay

VEGATRENN 141

Show Product

Protection rating

IP20

Input

1 x 4 … 20 mA/HART sensor input

Output

1 x 4 … 20 mA

Ambient temperature

-20 ... 60 °C