



### Reliable

Reliable level measurement and protection against foam overflow

### 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

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### 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

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### 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

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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**  
 $\pm 1$  mm

**Frequency**  
 6 GHz  
 26 GHz  
 80 GHz

**Beam angle**  
 $\geq 3^\circ$ 
**Materials, wetted parts**  
 PTFE  
 PVDF  
 316L  
 PP  
 PEEK

**Threaded connection**  
 $\geq G\frac{3}{4}$ ,  $\geq \frac{3}{4}$  NPT

**Flange connection**  
 $\geq DN20$ ,  $\geq \frac{3}{4}$ "

**Hygienic fittings**  
 Clamp  $\geq 1\frac{1}{2}$ " - DIN32676, ISO2852  
 Slotted nut  $\geq 2$ ", DN50 - DIN 11851  
 Varivent  $\geq DN25$   
 hygienic fitting with tension flange DN32  
 hygienic fitting F40 with compression nut  
 Hygienic screw connections  $\geq DN50$  tube  $\varnothing 53$  -  
 DIN11864-1-A  
 Hygienic flange connection  $\geq DN50$  DIN11864-2  
 Hygienic clamp connection  $\geq DN50$  pipe  $\varnothing 53$  - DIN11864-  
 3-A  
 DRD connection  $\varnothing 65$  mm  
 SMS 1145 DN51

PRO

**VEGACAP 64**  
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**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**  
 $\geq G\frac{3}{4}$ ,  $\geq \frac{3}{4}$  NPT

**Flange connection**  
 $\geq DN25$ ,  $\geq 1$ "

**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**  
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**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**  
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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