Reliable

Reliable function under all operating conditions

Cost effective

Maintenance-free operation of the system

User friendly

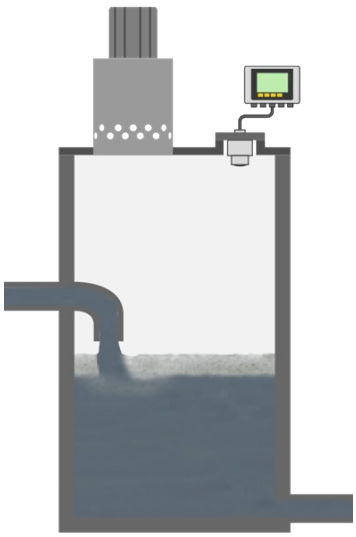
Simple installation and setup

Vacuum sewerage system

Level measurement in a vacuum tank

When new building zones are opened up, it is often quite expensive to build a sewerage network with the necessary downward slope. In such cases, a vacuum sewerage network offers an interesting alternative to traditional sewer systems. The wastewater is transported to the pumping station under vacuum, which allows significantly smaller pipes to be used and stretches of upward slope spanned. A central vacuum pumping unit conveys the wastewater from households via a central sewage discharge into the public sewer system. To effectively control the system the level in the vacuum tank must be continuously monitored.

More details



VEGAPULS C 21

Vacuum tank level measurement using non-contact radar

- Reliable function under constantly changing pressure conditions
- Reliable level measurement even with foam and turbulent surface
- Low-cost radar sensor for simple measuring tasks

Show Product

VEGAMET 841

Power supply for sensor, measurement data processing and display

- Clear, easy-to-read, user programmable display
- Robust housing designed for the harsh conditions in the field
- Universal controller for water and wastewater applications

Show Product

BASIC

VEGAPULS C 21 Show Product

Measuring range - Distance 15 m
Process temperature -40 ... 80 °C
Process pressure -1 ... 3 bar
Accuracy ± 2 mm
Frequency 80 GHz
Beam angle 8°
Materials, wetted parts PVDF
Threaded connection G1½ / G1, 1½ NPT / 1 NPT, R1½ / R1
Seal material FKM
Protection rating IP66/IP68 (3 bar), Type 6P

VEGAMET 841 Show Product

Protection rating IP66/IP67, Type 4X
Input 1 x 4 … 20 mA sensor input
Output 1 x 0/4 … 20 mA current output 3 x operating relay 1x failure relay (instead of operating relay)
Ambient temperature -40 ... 60 °C