Vacuum sewerage system

Reliable
Reliable measurement independent of the process conditions

Cost effective
Optimal plant operation

User friendly
Simple mounting and setup

Level measurement in a vacuum tank

When new developments are opened up, it can be quite expensive to build a sewage network with a suitable downward fall. In such cases, a vacuum sewer 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. An ultrasonic sensor cannot function in a vacuum.

VEGAPULS WL 61

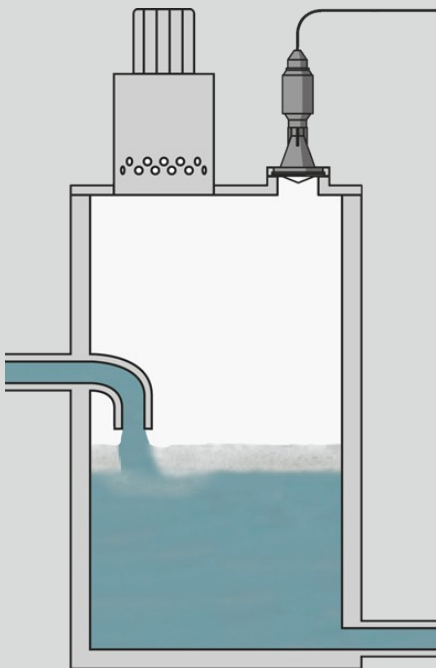To control the system, the level in the vacuum tank must be continuously monitored

- Reliable operation under changing pressure conditions
- Reliable level measurement even when there is foam or an unsteady, agitated surface
- Non-contact measurement allows maintenance-free operation

VEGAMET 391 - Power supply for sensor, measurement data processing and display

Power supply for sensor, measurement data processing and display

- Simple regulation and control of level and pressure measuring instruments
- Analogue and digital outputs for connection to process control systems
- Large measured value display

VEGA

VEGAPULS WL 61

Measuring-range---Distance
15 m

Process-temperature
-40 ... 80 °C

Process-pressure
-1 ... 2 bar

Accuracy
± 2 mm

Version
with plastic horn antenna ø 80 mm

Materials,-wetted-parts
PP

Threaded-connection
≥ G1½, ≥ 1½ NPT

Flange-connection
≥ DN80, ≥ 3"

Housing-material
Plastic

Protection-rating
IP 68 (2 bar)

VEGAMET 391 - Power supply for sensor, measurement data processing and display

Protection-rating
IP 20/IP 65

Input
1 x 4 … 20 mA/HART sensor input
with transmitter power supply

Output
1 x 0/4 … 20 mA current output
up to 6 x operating relay
1 x fail safe relay
1 x Ethernet or 1 x RS232

Ambient-temperature
-20 ... 60 °C

Signal-input-(specify)
4 … 20 mA/HART

Signal-output-(specify)
4 … 20 mA
Operating relay
Fail safe relay
Ethernet
RS232
Display