



Reliable

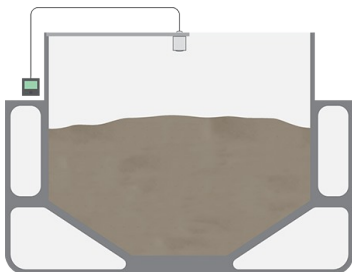
Exact measured values are important for smooth operation

Cost effective

Reliable measurement ensures safe and efficient loading and unloading, so that these ships have a longer uptime

User friendly

Maintenance free operation thanks to non-contact measurement



Hopper

Level measurement in the hopper of the trailing suction dredger

The hopper contains a mixture of sand, gravel and water. This mixture is collected by one or two suction pipes and drag heads that move over the seabed. The water flows out through so-called overflows and sand and gravel remain and are transported to an end destination for creating new land, or to be used as a supplementary material or building material. Accurate measurement of filling height, to determine the exact volume of displaced material, is important for smooth operation.

[More details](#)



VEGAPULS C 23

Level measurement with non-contact radar in the hopper

- Precise measurement close to the bottom
- Reliable measured values unaffected by foam and heavy weather conditions
- No false echoes from installations like frames or pipes thanks to narrow beam angle

[Show Product](#)



VEGAMET 342

External controller for 4 ... 20 mA HART sensors

- Power supply, value display, relay contacts and sensor adjustment on the bridge
- Easy-to-read display with plain text and graphics
- Simple adjustment via Bluetooth and PACTware or app for smartphone or tablet

[Show Product](#)

VEGAPULS C 23[Show Product](#)**VEGAMET 342**[Show Product](#)**Measuring range - Distance**

30 m

Process temperature

-40 ... 80 °C

Process pressure

-1 ... 3 bar

Accuracy

± 2 mm

Frequency

80 GHz

Beam angle

4°

Materials, wetted parts

PVDF

Threaded connection

G1, 1 NPT, R1

Protection rating

IP66/IP68 (3 bar), Type 6P

Output

4 ... 20 mA/HART

Modbus

SDI-12

Protection rating

IP20/IP40

Input

2 x 4 ... 20 mA sensor input

Output

3 x operating relay

1x failure relay (instead of operating relay)

2x 0/4 ... 20 mA current output

Ambient temperature

-20 ... 60 °C