



Reliable

Certain measurement even during filling

Cost effective

Reliable measurement of the total material volume in the silo

User friendly

Simple installation and setup

Lime silo

Level measurement and high level detection in the lime silo

In the nitrogen and phosphorus removal stage, lime is used to stabilize the pH value. Stored in silos, the lime is added to the wastewater as a solid or as an aqueous suspension. The silo content is measured by a radar sensor and a point level sensor detects the maximum level and transmits a full signal.

More details



VEGAPULS C 23

Non-contact level measurement with radar in the lime silo

- Maintenance-free operation thanks to non-contact measuring method
- Reliable measurement despite strong dust generation and buildup on the sensor
- Very good focusing allows exact measurement even with material deposits on the silo walls

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VEGACAP 65

Point level detection for full signal during filling

- Point level detection for reliable high level alarm during filling
- Mechanically robust sensor version guarantees long service life
- cable length shortened for easy adaptation to vessel size

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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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BASIC

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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

PRO

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Measuring range - Distance
 -

Process temperature
 -50 ... 200 °C

Process pressure
 -1 ... 64 bar

Version
 Cable ø 6 mm with screening tube without weight
 Cable ø 6 mm with screening tube and gravity weight
 Cable ø 6 mm with gravity weight
 Cable ø 8 mm with abrasion protection without weight
 Cable ø 8 mm with abrasion protection and gravity weight
 Cable ø 8 mm with gravity weight
 PA cable ø 12 mm with screening tube and gravity weight

Materials, wetted parts
 PTFE
 316L
 PA
 PEEK
 Steel

Threaded connection
 ≥ G1, ≥ 1 NPT

Flange connection
 ≥ DN50, ≥ 2"

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

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

Output
 Relay (DPDT)
 Contactless electronic switch
 Transistor (NPN/PNP)
 Two-wire

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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