

VEGASON S 62

Ultrasonic sensor for continuous level measurement for measuring ranges up to 8 m

Advantages

- Non-contact measurement
- Unaffected by product properties
- Calibration without product

Measuring ranges

- Liquids up to 8 m
- Solids up to 3.5 m

Function

Short ultrasonic pulses of approx. 70 kHz are emitted by the transducer in the direction of the measured product, then reflected back from the product surface and received by the transducer. Ultrasonic pulses travel at the speed of sound. The time from emission to reception of the signals is proportional to the level in the vessel. The adjustment of the sensors is carried out via the indicating and adjustment module PLICSCOM.

Area of application

VEGASON S 62 is suitable for level measurement of liquids and for use in small bulk solids vessels. The sensor is always mounted at the top.

Typical applications are measurement of liquids in storage vessels or open sumps up to a height of 8 m and can also carry out flow measurement in open flumes or weirs.

When using the sensor on bulk solids, the maximum measuring range is normally halved, but this depends on the amount of dust generated and the consistency of the bulk solid.

Technical data

Process pressure	-0.2 ... 2 bar
Process temperature	-40 ... +80 °C
Measuring range	in liquids: 0.4 ... 8 m solids: 0.4 ... 3.5 m
Dead band	400 mm
Accuracy	better than 0.2 % or ±10 mm
Output signal	4 ... 20 mA
Supply voltage	non-Ex instrument: 14 ... 36 V DC Ex instrument: 14 ... 30 V DC
Fault signal	20.5 mA, 22 mA, < 3.6 mA (adjustable)
Material, housing	plastic PBT (Polyester)
Protection	IP 66/IP 67
Materials, wetted parts	PVDF, EPDM
Approval	option: ATEX II 1G, 1/2G, 2G EEx ia IIC T6

Accessories: PLICSCOM, VEGAMET 381, VEGACONNECT 4