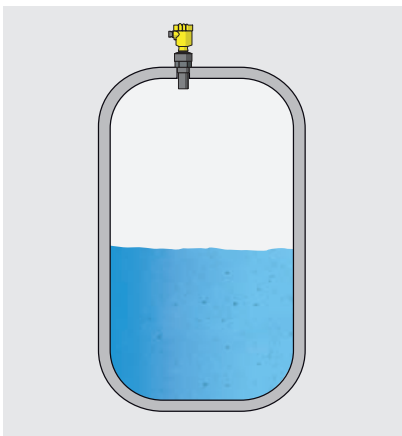




Level | Ultrasonic



Area of application

The ultrasonic sensors of the VEGASON series are suitable for non-contact level measurement of liquids and bulk solids in simple applications with stable measuring conditions. Typical applications with liquids are storage tanks and open basins. Bulk solids applications usually involve level measurement in open containers and small vessels.

Measuring principle

VEGASON sends short ultrasonic pulses in the direction of the measured medium. These pulses are reflected by the material surface and then received by the sensor. The instrument calculates the level from the running time of the sound wave and the entered tank height.



Advantages

The compact design allows for easy installation of the sensor. Since the properties of the medium do not affect the level measurement, setup and commissioning can be carried out without medium. The low-cost, non-contact measuring method allows wear and maintenance-free operation.

	VEGASON 61	VEGASON 62	VEGASON 63
			
Application	Liquids and bulk solids in small vessels	Liquids and bulk solids in small vessels	Liquids and bulk solids in all industries
Measuring range	Liquids: 0.25 ... 5 m Bulk solids: 0.25 ... 2 m	Liquids: 0.4 ... 8 m Bulk solids: 0.4 ... 3.5 m	Liquids: 0.6 ... 15 m Bulk solids: 0.6 ... 7 m
Transducer	of PVDF	of PVDF	of UP, 316L, PPH
Process fitting	Thread G1½, 1½ NPT	Thread G2, 2 NPT	Compression flange DN 100, mounting strap
Process temperature	-40 ... +80 °C	-40 ... +80 °C	-40 ... +80 °C
Process pressure	-0.2 ... +2 bar (-20 ... +200 kPa)	-0.2 ... +2 bar (-20 ... +200 kPa)	-0.2 ... +1 bar (-20 ... +100 kPa)
Accuracy	±10 mm	±10 mm	±10 mm
Signal output	4 ... 20 mA/HART, Profibus PA, Foundation Fieldbus	4 ... 20 mA/HART, Profibus PA, Foundation Fieldbus	4 ... 20 mA/HART, Profibus PA, Foundation Fieldbus
Display/Adjustment	PLICSCOM, PACTware, VEGADIS 81, VEGADIS 82	PLICSCOM, PACTware, VEGADIS 81, VEGADIS 82	PLICSCOM, PACTware, VEGADIS 81, VEGADIS 82
Approvals	ATEX, IEC, FM, CSA, EAC (GOST), UKR Sepro, Ship, SIL2	ATEX, IEC, FM, CSA, EAC (GOST), UKR Sepro, Ship, SIL2	Ship, SIL2
Benefit	<ul style="list-style-type: none"> • Maintenance-free operation through non-contact measuring method • Reliable measurement, independent of medium properties • Low-cost solution for simple applications 		