



Level I 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 pulses of ultrasonic sound waves in the direction of the medium to be measured. These pulses are reflected by the surface of the medium and then received back by the sensor. The instrument calculates the level from the running time of the sound waves versus the programmed 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
		
Application	Liquids and bulk solids in small vessels	Liquids and bulk solids in small vessels
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
Transducer	of PVDF	of PVDF
Process fitting	Thread G1½, 1½ NPT	Thread G2, 2 NPT
Process temperature	-40 ... +80 °C	-40 ... +80 °C
Process pressure	-0.2 ... +2 bar (-20 ... +200 kPa)	-0.2 ... +2 bar (-20 ... +200 kPa)
Accuracy	±10 mm	±10 mm
Signal output	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
Approvals	ATEX, IEC, FM, CSA, EAC (GOST), UKR Sepro, Ship, SIL2	ATEX, IEC, FM, CSA, EAC (GOST), UKR Sepro, 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 	