



## Raw material silo in the ethanol plant

### Reliable

Reliable level measurement for trouble-free operation of the raw material stocks

### Cost effective

Complete utilising of the silo without mechanical overload

### User friendly

Easy installation in the container roof with exact alignment for optimum measurement accuracy

### Level measurement and point level detection in the grain silo

Ethanol is an additive used in gasoline. Through the use of renewable resources, the CO<sub>2</sub> emission of fuels is significantly improved and the consumption of crude oil reduced. In modern ethanol plants, raw materials such as grain, sugar cane or sugar beet are processed into alcohol and ethanol. The resulting by-products and residues are also completely utilized. The different types of grain used for ethanol production are stored in silos more than 20 m high. Reliable silo level measurement is essential to ensure continuous production supply is maintained.



### VEGAPULS 69

Level measurement with radar in the grain silo

- Reliable measurement, even with changing media
- Easy mounting and setup thanks to installation from above
- Trustworthy measurement data even during filling



### VEGAVIB 62

Point level detection with vibrating level switch

- Wear and maintenance-free
- Easy to install and adjustment-free
- Reliable point level detection, even with changing media





VEGAPULS 69	VEGAVIB 62
<b>Measuring range - Distance</b> 120 m	<b>Process temperature</b> -40 ... 150 °C
<b>Process temperature</b> -40 ... 200 °C	<b>Process pressure</b> -1 ... 6 bar
<b>Process pressure</b> -1 ... 20 bar	<b>Version</b> Detection of solids in water Suspension cable
<b>Accuracy</b> ± 5 mm / ± 0.2"	<b>Materials, wetted parts</b> 316L FEP PUR
<b>Version</b> with plastic horn antenna ø 80 mm Metal jacketed lens antenna	<b>Threaded connection</b> ≥ G1, ≥ 1 NPT
<b>Materials, wetted parts</b> 316L PP PEEK	<b>Flange connection</b> ≥ DN 32, ≥ 1½"
<b>Threaded connection</b> G1½, 1½ NPT	<b>Seal material</b> CR, CSM
<b>Flange connection</b> ≥ DN80, ≥ 3"	<b>Housing material</b> Plastic Aluminium Stainless steel (precision casting) Stainless steel (electropolished)
<b>Seal material</b> EPDM FKM	<b>Protection rating</b> IP 66/IP 68 (0.2 bar) IP 66/IP 67 IP 66/IP 68 (1 bar)
<b>Housing material</b> Plastic Aluminium Stainless steel (precision casting) Stainless steel (electropolished)	<b>Output</b> Relay (DPDT) Contactless electronic switch Transistor (NPN/PNP) Two-wire NAMUR