



Raw material silo in the ethanol plant

Reliable

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

Cost effective

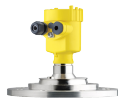
Complete utilising of the silo without mechanical overload

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 CO₂ 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
Measuring range - Distance 120 m	Process temperature -40 ... 150 °C
Process temperature -40 ... 200 °C	Process pressure -1 ... 6 bar
Process pressure -1 ... 20 bar	Version Detection of solids in water Suspension cable
Accuracy ± 5 mm / ± 0.2"	Materials, wetted parts 316L FEP PUR
Frequency 80 GHz	Threaded connection ≥ G1, ≥ 1 NPT
Beam angle ≥ 3,5°	Flange connection ≥ DN 32, ≥ 1½"
Version with plastic horn antenna ø 80 mm Metal jacketed lens antenna	Seal material CR, CSM
Materials, wetted parts 316L PP PEEK	Housing material Plastic Aluminium Stainless steel (precision casting) Stainless steel (electropolished)
Threaded connection G1½, 1½ NPT	Protection rating IP66/IP68 (0,2 bar) IP66/IP67 IP66/IP68 (1 bar)
Flange connection ≥ DN80, ≥ 3"	Output Relay (DPDT) Contactless electronic switch Transistor (NPN/PNP) Two-wire NAMUR