



Reliable

The measuring systems protect against mechanical overload, thereby ensuring smooth, trouble-free operation

Cost effective

Enabling smoother continuous production guarantees economical operation

User friendly

In case of extreme dust build up on the sensor, automatic cleaning can be enabled via the air purge connections on the sensor

Buffer silo for raw materials in the ethanol plant

Level measurement and point level detection in buffer silos

In order to always have enough material available for downstream processes in the ethanol plant, the crushed raw materials are held ready to use in buffer silos. The ground-up grain 'flour' for the production of ethanol is transported directly from the mill into a silo, where it is temporarily stored. The vast material throughput can lead to extreme mechanical loading of the silos and the associated equipment and high levels of dust are generated in the process. Level sensors are deployed to optimise the throughput, reduce overloading and ensure continuous, economical production and operation of the plant.

[More details](#)



VEGAPULS 6X

Non-contact level measurement with radar in the buffer silo

- No wear on the sensor thanks to non-contact measurement
- Reliable measurement despite intense dust generation
- Lower costs due to simple, fast installation and commissioning

[Show Product](#)





VEGAMIP 61

Point level detection with microwave barrier in the buffer silo

- No mechanical wear thanks to non-contact measurement
- Simple mounting with different mechanical options
- Maintenance-free operation and simple adjustment

[Show Product](#)

PRO	PRO
VEGAPULS 6X Show Product	VEGAMIP 61 Show Product
	
Measuring range - Distance 120 m	Measuring range - Distance 100 m
Process temperature -196 ... 450 °C	Process temperature -40 ... 80 °C
Process pressure -1 ... 160 bar	Process pressure -1 ... 4 bar
Accuracy ± 1 mm	Version hygienically encapsulated horn antenna for separate horn antenna with horn antenna ø 40 mm with horn antenna ø 48 mm with horn antenna ø 75 mm with horn antenna ø 95 mm with plastic horn antenna ø 80 mm Horn antenna ø 1½" with encapsulated horn antenna
Frequency 6 GHz 26 GHz 80 GHz	
Beam angle ≥ 3°	
Materials, wetted parts PTFE PVDF 316L PP PEEK	Materials, wetted parts PTFE 316L 1.4848 PP
Threaded connection ≥ G¾, ≥ ¾ NPT	Threaded connection G1½, 1½ NPT
Flange connection ≥ DN20, ≥ ¾"	Flange connection ≥ DN50, ≥ 2"
Hygienic fittings Clamp ≥ 1½" - DIN32676, ISO2852 Slotted nut ≥ 2", DN50 - DIN 11851 Varivent ≥ DN25 hygienic fitting with tension flange DN32 hygienic fitting F40 with compression nut Hygienic screw connections ≥ DN50 tube ø53 - DIN11864-1-A Hygienic flange connection ≥ DN50 DIN11864-2 Hygienic clamp connection ≥ DN50 pipe Ø53 - DIN11864-3-A DRD connection ø 65 mm SMS 1145 DN51	Hygienic fittings Slotted nut ≥ 2", DN50 - DIN 11851 Varivent ≥ DN25 DRD connection ø 65 mm for NEUMO BioControl D50 PN16 / 316L
	Seal material FKM FFKM
	Housing material Plastic Aluminium Stainless steel (precision casting) Stainless steel (electropolished)