

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



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

