

Reliable

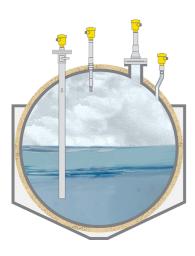
Reliable and safe measurement in all media

Cost effective

Full utilization of the tank volume

User friendly

Simple planning and commissioning



Cargo tanks on LNG carriers

Pressure, level and point level detection in Liquefied Natural Gas (LNG) applications

Liquefied gas is transported in insulated cargo tanks on LNG carriers at temperatures of -162 °C. The instrumentation used must be specially designed for these extreme temperatures. Pressure, level and point level of LNG in the cargo tanks must be reliably measured for the transport.

More details



VEGAPULS 6X

Radar sensor for non-contact level measurement in LNG tanks

- Front-flush PTFE antenna means no additional sealing material is required
- Reliable measurement even at very low temperatures down to -200 °C
- Exact measurement data despite low relative permittivity of the liquefied gas

Show Product

VEGABAR 82

Pressure transmitter for monitoring the pressure in the liquid gas tank

- High plant availability through maximum overload resistance of the ceramic measuring cell
- A special seal material and the dry measuring cell enable measurement at temperatures down to -50 °C

Show Product

VEGASWING 66

Vibrating level switch for point level detection in liquid gas tank

- Sensor for applications down to a temperature of -196 °C
- Switching point independent of changing media
- Reliable even with adhesive buildup

Show Product



PRO	PRO	PRO
VEGAPULS 6X Show Product	VEGABAR 82 Show Product	VEGASWING 66 Show Product
Measuring range - Distance 120 m	Measuring range - Distance -	Process temperature -196 450 °C
Process temperature -196 450 °C	Measuring range - Pressure -1 100 bar	Process pressure -1 160 bar
Process pressure -1 160 bar	Process temperature -40 150 °C	Version Compact version
Accuracy ± 1 mm	Process pressure -1 100 bar	with gas-tight leadthrough with tube extension
Frequency 6 GHz 26 GHz	Accuracy 0.05 %	Materials, wetted parts 316L Alloy C22 (2.4602) Inconel 718
80 GHz Beam angle	Materials, wetted parts PVDF 316L	Threaded connection G1, 1 NPT, R1
≥ 3° Materials, wetted parts	Alloy C22 (2.4602) PP 1.4057	Flange connection ≥ DN50, ≥ 2"
PTFE PVDF 316L	1.4410 Alloy C276 (2.4819) Duplex (1.4462)	Seal material no media contact
PP PEEK Threaded connection	Titanium Grade 2 (3.7035) Threaded connection	Housing material Plastic Aluminium
≥ G ³ 4, ≥ ³ 4 NPT	≥ G½, ≥½ NPT Flange connection	Stainless steel (precision casting) Stainless steel (electropolished)
≥ DN20, ≥¾"	≥ DN15, ≥ ½" Hygenic fittings	Protection rating
Clamp ≥ 1½" - DIN32676, ISO2852 Slotted nut ≥ 2", DN50 - DIN 11851	Clamp ≥ 1" - DIN32676, ISO2852 Slotted nut ≥ DN25 - DIN 11851 hygienic fitting with tension flange DN32	IP66/IP68 (1 bar) IP65
Varivent ≥ DN25 hygienic fitting with tension flange DN32 hygienic fitting F40 with compression nut Hygienic screw connections ≥ DN50 tube ø53 - DIN11864-1-A	hygienic fitting F40 with compression nut DRD connection ø 65 mm SMS 1145 DN51 SMS DN38	Output Relay (DPDT) Transistor (NPN/PNP) Two-wire
Hygienice flange connection ≥ DN50 DIN11864-2 Hygienic clamp connection ≥ DN50 pipe Ø53 - DIN11864- 3-A DRD connection Ø 65 mm	Swagelok VCR screwing Varivent G125 Varivent N50-40 for NEUMO BioControl D50 PN16 / 316L	
SMS 1145 DN51	Seal material EPDM FKM	

FFKM

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