



Application examples and products

Level and pressure instrumentation for the offshore industry

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VEGA HOME
OF VALUES



Reliable

Reliable measurement unaffected by medium

Cost effective

Continuous operation of the power equipment is assured

User friendly

Simple installation

Hydraulic oil reservoir tank

Level measurement in the reservoir tank for hydraulic oil

The hydraulic oil used to transmit power circulates in a closed system. However, it is gradually lost due to lubrication points and leakages in the power equipment. To ensure optimum operation of the power equipment, the level in every hydraulic oil reservoir tank must be monitored for replenishment.

[More details](#)

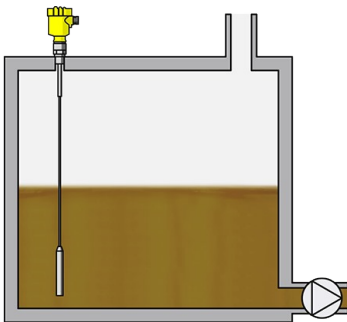


VEGAFLEX 81

Level measurement with guided radar in the hydraulic oil reservoir tank

- Precise measurement, independent of media properties
- High measurement reliability even with buildup
- Simple setup and commissioning saves time

[Show Product](#)





Reliable

Reliable measurement for protection of personnel and equipment

Cost effective

Long service life thanks to the use of non-contact measurement method

User friendly

Simple mounting

Wave and draught height

Wave height measurement for a drilling and production platform

The height of floating drilling or pumping assets like platforms or FPSOs must be precisely maintained, even in the roughest seas with waves up to 30 m high. Environmental influences such as wind and waves must be measured quickly and accurately, then evaluated with GPS navigation data. Furthermore, quick and exact measurement of wave heights is needed should there be an evacuation, where "freefall lifeboats" need to be released to meet waves at their highest point.

[More details](#)

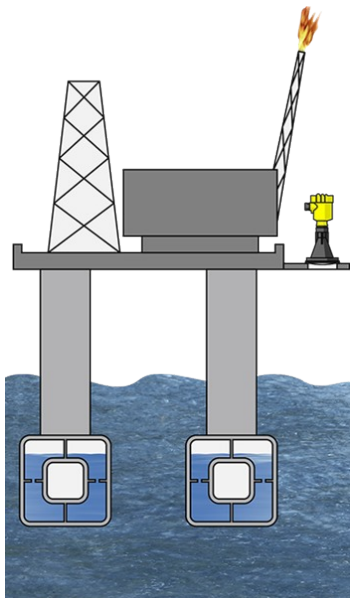


VEGAPULS 6X

Measuring wave heights with non-contact radar

- Reliable measurement, independent of wind, temperature and fog
- Focussed 80 GHz beam and fast reaction for precision measurement
- Simple installation thanks to low weight of the sensors

[Show Product](#)





Reliable

High platform stability through reliable measurement

Cost effective

Long service life thanks to resistant materials

User friendly

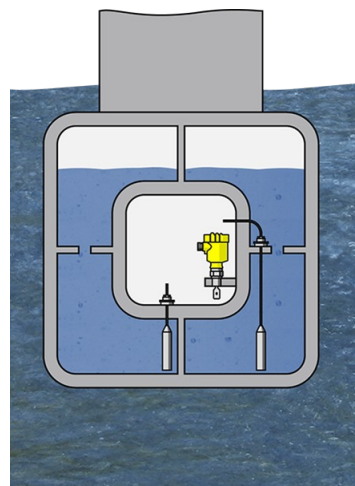
Simple installation and maintenance-free operation

Ballast tanks

Level measurement and point level detection in the ballast tanks

Floating drilling or pumping assets such as platforms or FPSOs are stabilized by filling or emptying ballast tanks with seawater. This enables operators to critically and safely manage the ballast and trim of a vessel according to operational needs, deck loading and sea conditions. For trouble-free operation of the ballast system and the safety of personnel and equipment on board, reliable level measurement and point level detection are absolutely essential.

[More details](#)



VEGAWELL 52

Hydrostatic pressure transmitter for level measurement in the ballast tanks

- High measuring accuracy increases safety on board
- Reliable and durable measurement ensured through robust, seawater resistant construction of sensor
- Simple installation from above

[Show Product](#)



VEGASWING 61

Vibrating level switch for leakage detection in the ballast tanks

- High process reliability through SIL2 qualification
- Simple function test from the control room possible
- Maintenance-free operation

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Reliable

Measurement results are unaffected by process conditions

Cost effective

Efficient operation and high oil quality

User friendly

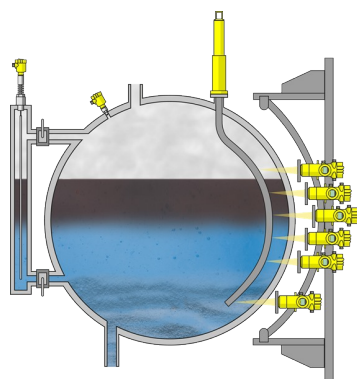
Maintenance-free operation

Oil separators

Level and pressure measurement in an oil separator

The separator vessel contains a mixture of crude oil, gas, water and sand extracted from the subsea well. Precise monitoring of these multiple separation interfaces and emulsions play a vital role in ensuring the quality of the oil separator for separation. Exact control of interfaces, level and pressure allows optimum utilization of the oil separator and increases the effectiveness of the entire asset.

[More details](#)



VEGAFLEX 86

Level measurement with guided radar in the oil separator

- Independent of medium density and therefore highly accurate
- Doubly secure thanks to the "Second Line of Defense"
- Shortenable rod probe allows high flexibility during planning

[Show Product](#)



VEGABAR 83

Pressure transmitter for monitoring pressure in the oil separator

- High plant availability due to high overload resistance
- High resistance of the measuring cell ensures a long service life
- Small process fitting reduces installation costs

[Show Product](#)



MINITRAC 31

Radiometric multi-phase interface measurement in the oil separator

- High process transparency through accurate detection of separation layers
- Ensures continuous operation of the facility through non-contact measuring method
- Measurement unaffected by pressure and temperature because sensor is installed outside of the tank

[Show Product](#)



Reliable

Secure sealing of the borehole

Cost effective

Ensures continuous bore head operation

User friendly

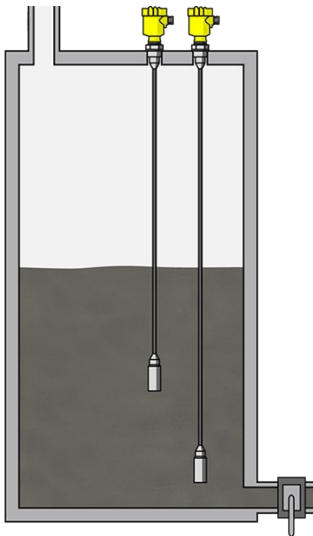
Wear and maintenance-free measurement

Mud tanks

Density measurement in mud tanks

Prior to, and during pumping into the well, the density of the mud needs continuous monitoring. Density is an important criteria for determining the correct composition of the drilling mud. The correct mud formulation ensures smooth forward propulsion, wear-free drilling and excellent sealing of the borehole is ensured through density monitoring.

[More details](#)



VEGABAR 86

Electronic differential pressure measurement for monitoring drilling mud density

- Continuous plant operation thanks to high overload resistance of the ceramic measuring cell
- Reliable measurement, independent of mud composition
- Simple installation thanks to top mounting

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Reliable

Reliable measurement despite rough conditions

Cost effective

Maintenance-free operation even in adhesive media

User friendly

Simple installation thanks to small antenna systems

Mud tank level

Level measurement in mud tanks

In the mud tanks, agitators or jet nozzles stir and mix the mud to ensure a homogeneous mixture. To enable a continuous process, the level measurement must be reliable and independent of the composition of the drilling mud.

[More details](#)

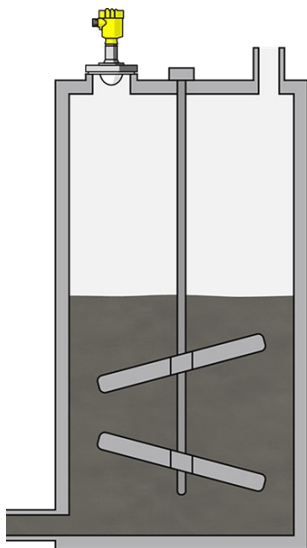


VEGAPULS 6X

Non-contact level measurement with radar in mud tanks

- High measurement accuracy, independent of the properties of the medium
- Strong signal focusing ensures reliable measurement even with an agitator
- Continuous, maintenance-free operation despite heavy soiling

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Reliable

Reliable measurement, independent of weather conditions

Cost effective

Effective utilization of the collecting tank

User friendly

Simple installation

Wastewater sump (open drain)

Level measurement in rainwater collecting tanks

Rain run-off on board of oil platforms and ships is polluted with production residues and contaminants such as oil, sand and dirt. The rainwater with these contaminants must be collected in special tanks and properly disposed of. A reliable level measurement in the tank protects against overflow of the open drain removing the possibility of subsequent marine pollution.

[More details](#)



VEGAPULS 6X

Non-contact level measurement with radar in the rainwater collection tank

- Reliable measurement, independent of medium composition
- Maintenance-free operation, as sensor is non-sensitive to soiling
- High measuring accuracy despite wind and temperature fluctuations

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Reliable

Reliable measurement, independent of process conditions

Cost effective

Ensures an effective gas drying process, and thus high quality gas

User friendly

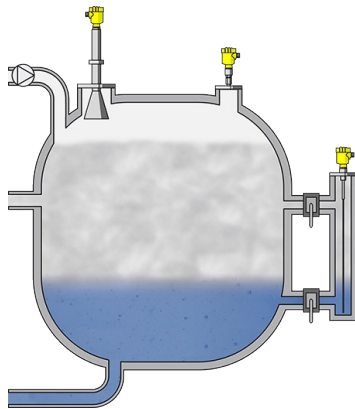
Maintenance-free operation

Gas separators (scrubbers)

Level and pressure measurement in the gas separator

Extracted natural gas and gas residues from oil production are contaminated with water and are therefore collected in gas separators (scrubbers) for separation. Pressures of up to +150 bar keep the gas in the liquid state. Exact pressure and level measurement enable optimal utilization of the gas separator and effective control of the gas drying process. The separation of gas from water is carried out by chemically binding the water to glycol and separating it mechanically. Accurate measurement of the gas/water interface determines the quality of the gas.

[More details](#)



VEGAFLEX 86

Interface measurement with guided radar in the gas separator

- Reliable measurement, independent of medium composition
- Doubly secure thanks to "Second Line of Defense"

[Show Product](#)



VEGABAR 81

Pressure transmitter for monitoring pressure in the gas separator

- Reliable measurement despite high pressure and large temperature ranges
- Wear and maintenance-free thanks to highly resistant diaphragm materials

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VEGAPULS 6X

Level measurement with radar in the gas separator

- Exact measuring results, independent of pressure, temperature and gas
- Maintenance-free operation thanks to non-contact measurement method
- Easy to install in the tank

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Reliable

Reliable measurement, independent of the process conditions

Cost effective

Ensures effective processing of the drilling mud

User friendly

Simple installation and setup from above

Shaker

Level measurement and point level detection in the shaker

Through the effects of strong vibration in the shaker, the liquid and solid components of the drilling mud returning from the borehole are separated from each other. The drilled rock and the sand are disposed of and the valuable drilling mud is fed back into the continuous drilling process. Level measurement and point level detection are absolutely necessary for effective processing of the drilling mud in the shaker.

[More details](#)



VEGAPULS 6X

Non-contact level measurement with radar in the shaker

- Accurate measurement, independent of media properties
- Reliable measurement, unaffected by vibration and buildup
- High equipment availability, as wear and maintenance-free

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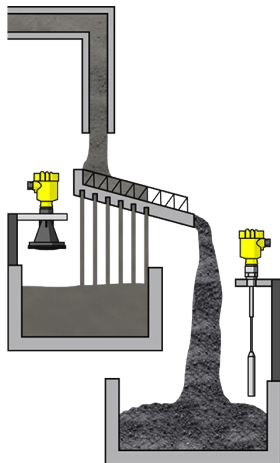


VEGACAP 65

Capacitive level switch for point level detection in the shaker

- Long service life thanks to robust mechanical construction
- Reliable switching point ensured by large gravity weight
- Maintenance-free operation, as non-sensitive to soiling

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Reliable

Reliable measurement, independent of the characteristics of the drilling mud

Cost effective

Maintenance-free and accurate determination of mud usage

User friendly

Simple installation and setup

Trip tank

Level measurement in the trip tank

The drilling mud flowing back under high pressure from the drilling well is held and monitored in the trip tank. This drilling mud is contaminated with sea water, rocks and sand. In addition to materials like rocks and sand, residues of oil and gas are also present. The built-in level measuring system provides feedback about down-well conditions, basic data for comparing the quantity of drilling mud fed into the wellbore with that returned, as well as regulating mud production.

[More details](#)

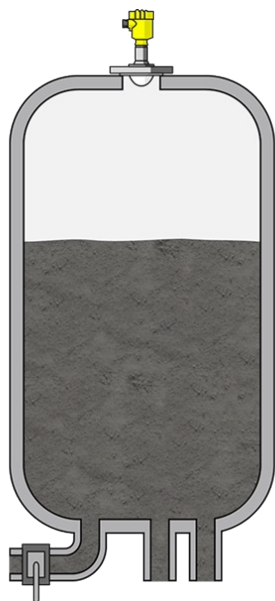


VEGAPULS 6X

Level measurement with radar in the trip tank

- Reliable measurement ensured even with varying drilling mud composition
- Exact measuring results, independent of pressure, temperature and gas
- Maintenance-free operation thanks to non-contact measurement method

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**Reliable**

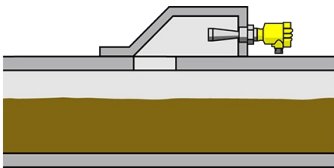
Precise measurement protects the drilling equipment

Cost effective

Continuous, wear-free operation

User friendly

Simple setup and commissioning



Mud flow return line

Drilling mud pipe flow measurement

The drilling mud flowing back from the drilling contains large amounts of solids. To avoid clogging in these pipes and the associated damage to the drill head and loss of production, a reliable monitoring of the entire mud return system is essential.

[More details](#)



VEGAPULS 62

Non-contact detection of clogging with radar in the mud flow return lines

- High measuring accuracy, independent of the physical properties of the drilling mud
- Mud flow uninterrupted, as sensor is installed outside the pipe
- Wear-free operation thanks to non-contact measuring method

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Reliable

Reliable measurement under rough conditions

Cost effective

Maintenance-free operation despite the presence of abrasive and adhesive products

User friendly

Simple installation and setup

Storage tank for solid raw materials

Level measurement and point level detection in the storage tank for solid raw materials

The solid raw materials such as gravel, clay, barite, cement and binders are essential for creating the different properties of the drilling mud. These materials are stored for mud production in storage tanks. To ensure optimal storage, reliable level measurement and point level detection are required.

[More details](#)



VEGAPULS 69

Level measurement with radar in the storage tank for solid raw materials

- Swivelling holder allows optimal sensor alignment
- High equipment availability, as wear and maintenance-free
- Reliable measurement, unaffected by dust and noise

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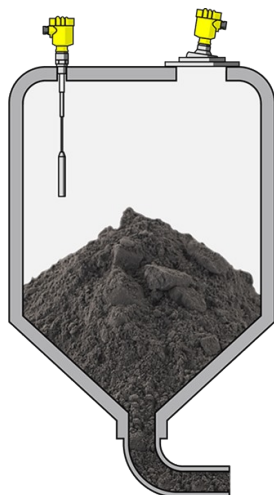


VEGACAP 65

Capacitive level switch prevents overfilling in the storage tank for solid raw materials

- Robust design ensures a long service life
- SIL2 qualification increases plant safety
- Easy on-site customization thanks to shortenable cable probe

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Reliable

Reliable measurement, independent of product characteristics

Cost effective

Maintenance-free operation

User friendly

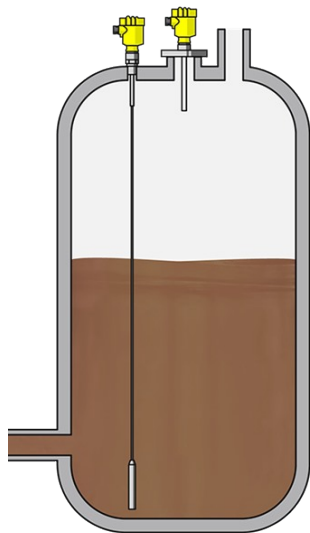
Simple setup and commissioning

Storage tank for liquid raw materials

Level measurement and point level detection of liquid raw materials in storage tanks

Oils and alkaline solutions are among the liquid raw materials for the mud mixtures. These additives are stored on the drilling platform in special storage tanks. To ensure the continuous production of drilling mud, the level of raw materials in the storage tanks must be exactly monitored.

[More details](#)



VEGAFLEX 81

Level measurement with guided radar in storage tanks for liquid raw materials

- Simple project planning enabled by shortenable rod and cable probes
- Long service life thanks to highly resistant materials
- Non-sensitive to buildup and foam

[Show Product](#)



VEGASWING 63

Level switch for detecting the maximum level in the storage tank for liquid raw materials

- Reliable measurement, independent of mud characteristics
- Robust construction ensures a long service life
- Simple setup without adjustment

[Show Product](#)



Reliable

Reliable measurement, independent of process conditions

Cost effective

Ensures effective operation of the equipment

User friendly

Maintenance-free operation

Flare knockout drum

Level measurement in the flare knockout drum

The unrecoverable residues of oil and gas production are collected in the flare knockout drum and liquefied at high pressure. The recovered liquid, the condensate, collects at the bottom of the vessel and is disposed of. The non-liquefied gases are decompressed and burned in the flare system. To ensure efficient and safe operation of the vessel, the level inside must be very reliably measured.

[More details](#)

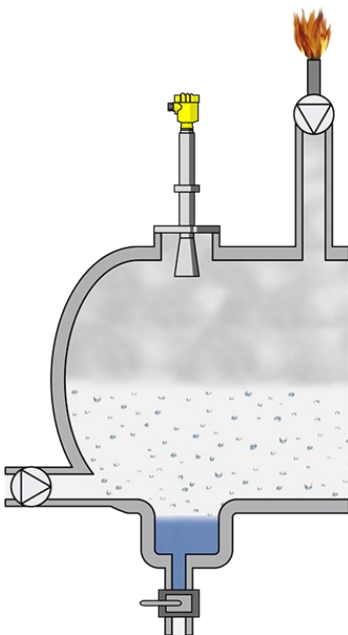


VEGAPULS 6X

Level measurement with radar in the flare knockout drum

- Exact measurement, independent of process conditions
- Maintenance-free thanks to non-contact measuring method
- Pressure and temperature stable antenna system of metal and ceramic with graphite seal

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Reliable

High measuring precision, independent of process conditions

Cost effective

External mounting to the vessel, easily retrofitted

User friendly

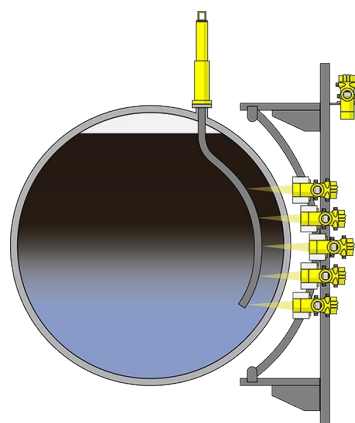
Simple air and water calibration for fast commissioning time

Primary desalter

Interface tracking in the primary desalter

It is important that a desalter unit runs efficiently to prevent corrosion to downstream equipment. When the crude oil mixes with the emulsifying chemicals and water, the resulting emulsion layer makes it difficult for standard level measurement technologies to reliably track the interface. Radiation-based measuring instruments are not affected by this and allow to track the interface even with thick emulsion layers present in the tank to make sure that the desalting process can be controlled efficiently at maximum throughput.

[More details](#)



MINITRAC 31

Multi-point density array for multi-phase interface and emulsion control

- Reliably tracks emulsion layer to keep the process stream efficient
- Optimises use of emulsifiers and other treatment chemicals
- Remains online even when replacing a detector to eliminate downtime
- Allows operator to maintain high throughput even when switching between light to heavy feedstock

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**Reliable**

Unaffected by changing crude density

Cost effective

Low maintenance costs

User friendly

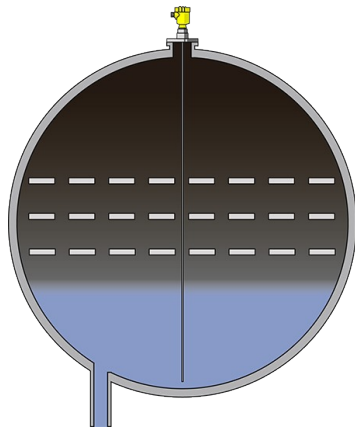
Fast and easy setup

Secondary desalter

Interface measurement in the secondary desalter

To maximize efficiency of the electrostatic grid as it removes contaminants within second and third stage desalters, a crucial point of control is to maintain the oil and water interface just below this grid. Reliable measurement of this level protects the grid from shorting out on the water as well as increasing efficiency of the unit, which ensures the quality of the feed moving into the next process unit.

[More details](#)









VEGAFLEX 81




Guided wave radar sensor for continuous interface measurement




- Simple setup expedites installation
- Unaffected by viscous process properties
- Rigid rod probe prevents interference with electrostatic grid

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PRO	PRO	PRO
MINITRAC 31 Show Product	VEGABAR 81 Show Product	VEGABAR 83 Show Product
		
Radiometric sensor for density measurement	Pressure transmitter with chemical seal	Pressure transmitter with metallic measuring cell
Measuring range - Distance -	Measuring range - Distance -	Measuring range - Distance -
Process temperature -40 ... 60 °C	Measuring range - Pressure -1 ... 1000 bar	Measuring range - Pressure -1 ... 1000 bar
Process pressure -	Process temperature -90 ... 400 °C	Process temperature -40 ... 200 °C
Accuracy 0.1 %	Process pressure -1 ... 1000 bar	Process pressure -1 ... 1000 bar
Materials, wetted parts No wetted material	Accuracy 0.2 % 0.1 %	Accuracy 0.075 %
Seal material no media contact	Materials, wetted parts Alloy C22 (2.4602) Alloy 400 (2.4360) Tantalum Alloy C276 (2.4819) Duplex (1.4462) Titanium Grade 2 (3.7035) 1.4435 316/316L Titanium Grade 7 (3.7235)	Materials, wetted parts 316L Alloy C22 (2.4602) 316Ti (1.4571) Alloy C4 (2.4610)
Housing material Aluminium Stainless steel (precision casting)	Threaded connection ≥ G½, ≥ ½ NPT	Threaded connection ≥ G½, ≥ ½ NPT
Protection rating IP66/IP67	Flange connection ≥ DN25, ≥ 1"	Flange connection ≥ DN25, ≥ 1"
Output Profibus PA Foundation Fieldbus 4 ... 20 mA/HART - four-wire	Hygienic fittings Clamp ≥ 1" - DIN32676, ISO2852 Slotted nut ≥ 1½", ≥ DN40 - DIN 11851 hygienic fitting with tension flange DN32 hygienic fitting F40 with compression nut Hygienice flange connection ≥ DN50 DIN11864-2 Hygienic fittings ≥ DN40 - DIN11864-1-A	Hygienic fittings Slotted nut ≥ DN25 - DIN 11851 Varivent ≥ DN25 hygienic fitting with tension flange DN32 Hygienice flange connection ≥ DN50 DIN11864-2 SMS 1145 DN51 SMS DN38 Hygienic fittings ≥ DN33 - DIN11864-1-A Hyg. collar clamp adapter DN40PN40 DIN11864-3-A Hyg. clamp connection DIN11864-3-A; DN50 Rohr ø53 Swagelok VCR screwing Varivent G125
Ambient temperature -40 ... 60 °C	Seal material no media contact	Seal material no media contact

PRO	PRO	PRO
VEGABAR 86 Show Product	VEGACAP 65 Show Product	VEGAFLEX 81 Show Product
		
Submersible pressure transmitter with ceramic measuring cell	Capacitive cable probe for level detection	TDR sensor for continuous level and interface measurement of liquids
Measuring range - Pressure 0 ... 25 bar	Measuring range - Distance -	Measuring range - Distance 75 m
Process temperature -20 ... 100 °C	Process temperature -50 ... 200 °C	Process temperature -60 ... 200 °C
Process pressure 0 ... 25 bar	Process pressure -1 ... 64 bar	Process pressure -1 ... 40 bar
Accuracy 0.1 %	Version Cable ø 6 mm with screening tube without weight Cable ø 6 mm with screening tube and gravity weight Cable ø 6 mm with gravity weight Cable ø 8 mm with abrasion protection without weight Cable ø 8 mm with abrasion protection and gravity weight Cable ø 8 mm with gravity weight PA cable ø 12 mm with screening tube and gravity weight	Accuracy ± 2 mm
Materials, wetted parts PVDF 316L FEP PE PUR	Materials, wetted parts PTFE 316L PA PEEK Steel	Version Basic version for exchangeable cable ø 2; ø 4 mm Basic version for exchangeable rod ø 8 mm Basic version for exchangeable rod ø 12 mm Coax version ø 21.3 mm for ammonia application Coax version ø 21.3 mm with single hole Coax version ø 21.3 mm with multiple hole Coax version ø 42.2 mm with multiple hole Exchangeable rod ø 8 mm Exchangeable rod ø 12 mm Exchangeable cable ø 2 mm with gravity weight Exchangeable cable ø 4 mm with gravity weight Exchangeable cable ø 2 mm with centering weight Exchangeable cable ø 4 mm with centering weight Exchangeable cable ø 4 mm without weight exchangeable, PFA-coated cable ø4 mm with non-coated centering weight
Threaded connection ≥ G1½, ≥ 1½ NPT	Threaded connection ≥ G1, ≥ 1 NPT	Threaded connection ≥ G¾, ≥ ¾ NPT
Flange connection ≥ DN 40, ≥ 2"	Flange connection ≥ DN50, ≥ 2"	Flange connection ≥ DN25, ≥ 1"
Seal material EPDM FKM FFKM	Housing material Plastic Aluminium Stainless steel (precision casting) Stainless steel (electropolished)	Materials, wetted parts PFA 316L Alloy C22 (2.4602) Alloy 400 (2.4360) Alloy C276 (2.4819) Duplex (1.4462) 304L
Housing material Plastic Aluminium Stainless steel (precision casting) Stainless steel (electropolished)	Protection rating IP66/IP68 (0,2 bar) IP66/IP67 IP66/IP68 (1 bar) IP66/IP68 (25 bar) IP69K	Threaded connection ≥ G¾, ≥ ¾ NPT
Protection rating IP66/IP68 (0,2 bar) IP66/IP67 IP66/IP68 (1 bar) IP66/IP68 (25 bar) IP69K	Output Relay (DPDT) Contactless electronic switch Transistor (NPN/PNP) Two-wire	Seal material EPDM FKM FFKM Silicone FEP coated Borosilicate glass
		Housing material Plastic Aluminium Stainless steel (precision casting) Stainless steel (electropolished)

PRO	PRO	PRO
VEGAFLEX 86 Show Product	VEGAPULS 62 Show Product	VEGAPULS 69 Show Product
		
TDR sensor for continuous level and interface measurement of liquids	Radar sensor for continuous level measurement of liquids	Radar sensor for continuous level measurement of liquids and bulk solids
Measuring range - Distance 75 m	Measuring range - Distance 35 m	Measuring range - Distance 120 m
Process temperature -196 ... 450 °C	Process temperature -196 ... 450 °C	Process temperature -196 ... 450 °C
Process pressure -1 ... 400 bar	Process pressure -1 ... 160 bar	Process pressure -1 ... 160 bar
Accuracy ± 2 mm	Accuracy ± 2 mm	Accuracy ± 1 mm
Version Coax version ø 21.3 mm with multiple hole Coax version ø 42.2 mm with single hole Coax version ø 42.2 mm with multiple hole Exchangeable rod ø 16 mm Exchangeable cable ø 2 mm with gravity weight Exchangeable cable ø 4 mm with gravity weight Exchangeable cable ø 2 mm with centering weight Exchangeable cable ø 4 mm with centering weight	Frequency 26 GHz	Frequency 6 GHz 26 GHz 80 GHz
Materials, wetted parts 316L Alloy C22 (2.4602) 316	Beam angle ≥ 3°	Beam angle ≥ 3°
Threaded connection ≥ G¾, ≥ ¾ NPT	Version for separate horn antenna with ½" standpipe 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 parabolic antenna ø 245 mm	Materials, wetted parts PTFE PVDF 316L PP PEEK
Flange connection ≥ DN25, ≥ 1"	Materials, wetted parts 316L Alloy C22 (2.4602) 1.4848 Alloy 400 (2.4360)	Threaded connection ≥ G¾, ≥ ¾ NPT
Seal material FFKM graphit and ceramic	Threaded connection G1½, 1½ NPT	Flange connection ≥ DN20, ≥ ¾"
Housing material Plastic Aluminium Stainless steel (precision casting) Stainless steel (electropolished)	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

PRO	PRO	PRO
VEGAPULS 6X Show Product	VEGASWING 61 Show Product	VEGASWING 63 Show Product
		
Radar sensor for continuous level measurement of liquids and bulk solids	Vibrating level switch for liquids	Vibrating level switch with tube extension for liquids
Measuring range - Distance 120 m	Measuring range - Distance -	Process temperature -50 ... 250 °C
Process temperature -196 ... 450 °C	Process temperature -50 ... 250 °C	Process pressure -1 ... 64 bar
Process pressure -1 ... 160 bar	Process pressure -1 ... 64 bar	Version Standard Hygienic applications with gas-tight leadthrough with tube extension with temperature adapter
Accuracy ± 1 mm	Version Standard Hygienic applications with gas-tight leadthrough with temperature adapter	Materials, wetted parts PFA 316L Alloy C22 (2.4602) Alloy 400 (2.4360) ECTFE Enamel
Frequency 6 GHz 26 GHz 80 GHz	Materials, wetted parts PFA 316L Alloy C22 (2.4602) Alloy 400 (2.4360) ECTFE Enamel	Threaded connection ≥ G¾, ≥ ¾ NPT
Beam angle ≥ 3°	Threaded connection ≥ G¾, ≥ ¾ NPT	Flange connection ≥ DN25, ≥ 1"
Materials, wetted parts PTFE PVDF 316L PP PEEK	Flange connection ≥ DN25, ≥ 1"	Hygienic fittings Clamp ≥ 1" - DIN32676, ISO2852 Slotted nut ≥ 1½", ≥ DN40 - DIN 11851 Varivent ≥ DN25 hygienic fitting F40 with compression nut SMS 1145 DN51 SMS DN38 Hygienic fittings ≥ DN25 - DIN11864-1-A Hygienic flange connection DIN11864-2-A; DN60(ISO)ø60,3 SMS socket piece DN38 PN6
Threaded connection ≥ G¾, ≥ ¾ NPT	Hygienic fittings Clamp ≥ 1" - DIN32676, ISO2852 Slotted nut ≥ 1½", ≥ DN40 - DIN 11851 Varivent ≥ DN25 hygienic fitting F40 with compression nut SMS 1145 DN51 SMS DN38 Hygienic fittings ≥ DN25 - DIN11864-1-A Hygienic flange connection DIN11864-2-A; DN60(ISO)ø60,3 SMS socket piece DN38 PN6	Seal material no media contact
Flange connection ≥ DN20, ≥ ¾"	Seal material no media contact	Housing material Plastic Aluminium Stainless steel (precision casting) Stainless steel (electropolished)
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	Housing material Plastic Aluminium Stainless steel (precision casting) Stainless steel (electropolished)	Protection rating IP66/IP67 IP66/IP68 (1 bar) IP65

VEGAWELL 52[Show Product](#)

Submersible pressure transmitter with ceramic measuring cell

Measuring range - Pressure

0 ... 60 bar

Process temperature

-20 ... 80 °C

Process pressure

-

Accuracy

0.1 %

Materials, wetted parts

PVDF
316L
Duplex (1.4462)
FEP
PE
1.4301
Titanium

Seal material

EPDM
FKM
FFKM

Protection rating

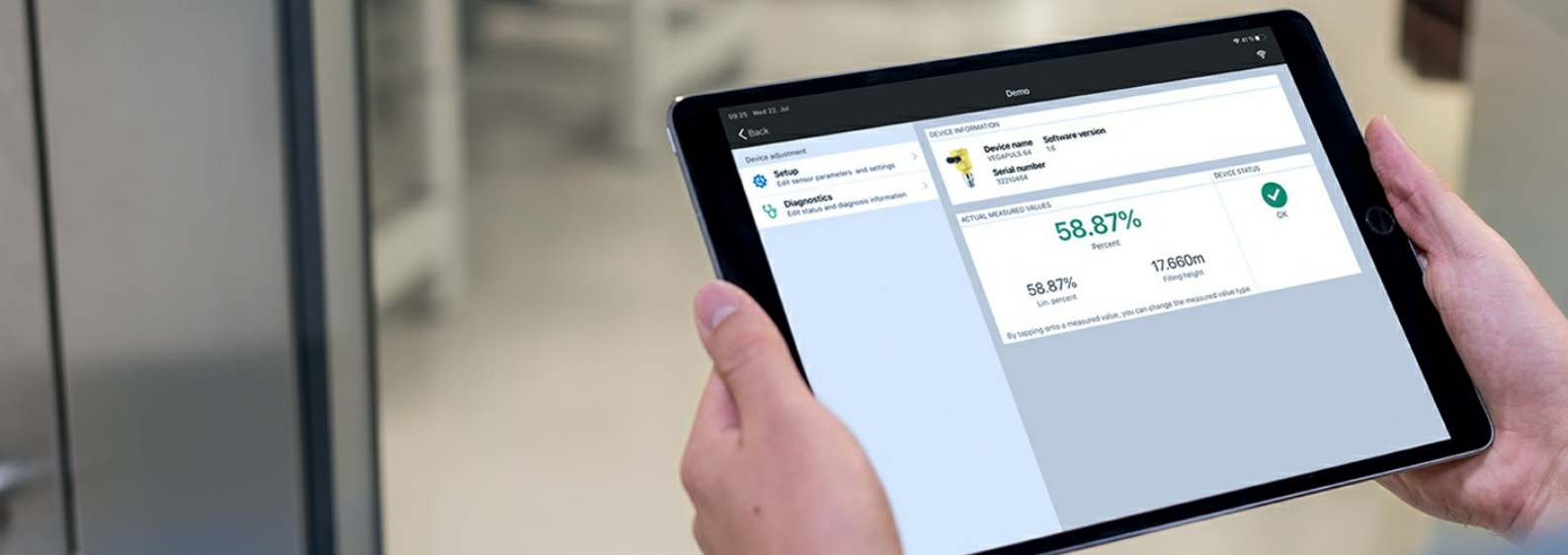
IP66/IP67
IP68

Output

4 ... 20 mA
4 ... 20 mA/HART - two-wire

Ambient temperature

-40 ... 80 °C



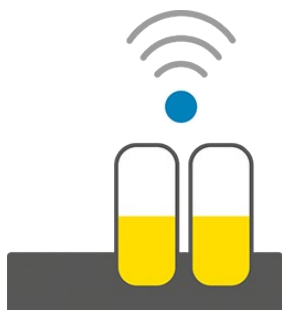
Interconnected solutions



Wireless operation

With Bluetooth, VEGA is looking far into the future. Wireless communication provides better accessibility: In harsh industrial environments, in hazardous areas, and in clean rooms. It allows setup, display and diagnostics from a distance of up to 50 metres, thus saving time and avoiding hazardous situations. Simply via VEGA Tools app – on any available smartphone or tablet.

Wireless operation



VEGA Inventory System

Simple but powerful visualization software coupled with high performance sensors provides a complete solution for remote monitoring.

- Access to live data anywhere on the internet via a web browser
- Gain detailed insights into your stock levels and consumption
- Optimize replenishment planning
- Never miss events with alerts and notifications
- Secure and reliable data

VEGA Inventory System

myVEGA

With myVEGA as your personal information platform you have access to many useful online functions relating to VEGA products.

- Configurator for the entire VEGA product range
- 2D/3D drawings of configured instruments
- Access to product data, operating instructions, certificates and software
- Manage offers and order data, and also track shipments
- Save, manage and synchronize access codes for VEGA sensors

myVEGA

