Application examples and products

Level and pressure measurement technology for wineries

VEGA HOME OF VALUES

Reliable

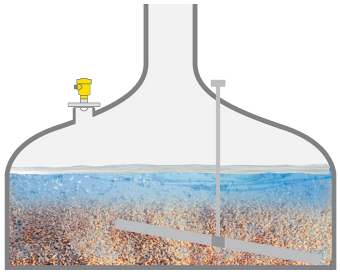
The level is reliably detected, even under layers of foam

Cost effective

Maintenance-free operation thanks to non-contact measuring principle

User friendly

Simple installation and setup



Mash tun

Level measurement in the mash tun

The crushed malt is mixed with brewing water to create the mash. The mixture is heated in the mash tun and the natural enzymes convert the insoluble grain starch into soluble malt sugar. During the process, all the malt ingredients important for the beer are transferred to the brewing liquor. The end product is then clarified, separating the enriched brewing liquor from the solids. Continuous level measurement is required during the cooking process.

More details

VEGAPULS 6X

Level measurement with radar in the mash tun

- Exact measuring results independent of process conditions
- Trustworthy measuring results despite foam and condensate
- High plant availability, because wear and maintenance free

Show Product

Reliable

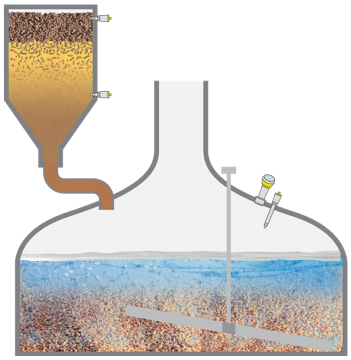
Certified materials according to FDA and EC 1935/2004 regulations

Cost effective

Maintenance-free operation

User friendly

Simple setup and commissioning via standardised, VDMA-compliant interface



Wort kettle

Pressure and point level measurement in the wort kettle and in the hops dissolver

Hops give beer its typical beer aroma. Proper dosage of the hops is therefore enormously important for the flavour of the finished product. Wort and hops are mixed together and cooked in the wort kettle. To ensure reliable control of the hops dosage and cooking process, level and pressure measurements are integrated in the process.

More details

VEGAPOINT 23

Capacitive level switch as overfill protection in the wort kettle

- Switching point adaptable to the measuring location
- Reliable overfill prevention
- 360° display of the switching status

Show Product

VEGABAR 39

Pressure transmitter for gauge pressure measurement in the wort kettle

- Reliable gauge pressure measurement, unaffected by steam and condensate
- Standardised VDMA operating structure simplifies setup and commissioning
- 360° display of the switching status

Show Product

Reliable

Reliable monitoring of the media streams

Cost effective

Maintenance-free operation through reliable measurement technology

User friendly

Simple connection via standardised IO-Link

Wort cooler

Pressure measurement in the wort cooler

In the wort cooler, the wort is cooled down from approx. +100 °C to 8 - 15 °C. The yeast is added in a subsequent process. Reliable pressure measurement is required to maintain an optimal process in the wort cooler.

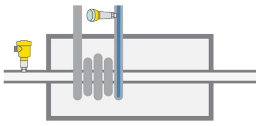
More details

VEGABAR 83

Pressure transmitter for pressure monitoring in the wort pipeline

- Robust measuring cell guarantees long-term stability
- Suitable for CIP cleaning processes, temperature resistant up to +130 °C
- Bluetooth communication for easy diagnosis

Show Product



VEGABAR 38

Pressure transmitter with I/O link connection for pressure monitoring in the feed line for the cooling medium

- Simple operation thanks to VDMA menu structure and integrated display
- Ceramic CERTEC® measuring cell is totally resistant to cooling water
- Thanks to the 360° status display, different operating status can be quickly and clearly recognised

Show Product

Reliable

Certified materials according to FDA and EC 1935/2004 regulations

Cost effective

Accurate monitoring optimizes the brewing process

User friendly

One measuring instrument, three measured values: Level, overpressure, temperature

Fermentation tank

Level, pressure and point level measurement in the fermentation tank

After the wort has been cooled down to the appropriate temperature in the wort cooler, it is pumped into the fermentation tanks. The fermentation process is then started by adding in yeast. The yeast converts the malt sugar dissolved in the wort into carbonic acid and alcohol. To ensure optimal fermentation in the tank, the following key parameters are measured: hydrostatic pressure for determining the level, overpressure for CO2 content monitoring and limit level for overfill or dry run protection.

More details

VEGABAR 82

Level measurement via electronic differential pressure measurement in the fermentation tank

- Reliable measurement unaffected by condensation thanks to encapsulated measuring cell
- Good cleanability thanks to hygienic design and flush mounting
- Additional temperature measurement by temperature sensor located very close to the process

Show Product

VEGABAR 38

Pressure sensor for pressure monitoring in the yeast supply line and in the CO2 discharge line

- Ceramic CERTEC® measuring cell is resistant to CIP cleaning
- Good cleanability thanks to hygienic design
- Bluetooth communication for easy operation

Show Product

VEGAPOINT 21

Capacitive level switch as overfill and dry run protection in the fermentation tank

- 360° status display for quick and easy recognition of switching status
- Compact design facilitates cleaning
- Reliable measurement independent of condensation and foam

Show Product

Reliable

Approved materials in compliance with FDA and EC 1935/2004

Cost effective

Continuous monitoring ensures optimal system operation

User friendly

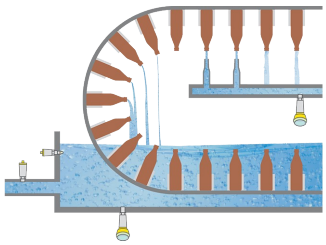
Compact design

Bottle cleaning

Pressure and limit level measurement in the bottle cleaning process

Before they are filled with beer, the bottles are thoroughly cleaned. The bottles are fed into the system and filled with caustic water in the basin of the washing facility, which removes all coarse dirt and contamination. Water at different temperatures is then sprayed into the bottles via high-pressure nozzles in order to remove any remaining dirt and the caustic solution. To ensure optimal system operation, the level in the basin is hydrostatically monitored. In addition, the pressure in the supply line to the basin and in the water pipeline to the rinsing nozzles is measured.

More details



VEGABAR 28

Pressure sensor for pressure monitoring in the supply line to the caustic water basin

- Good cleanability thanks to flush mounting sensor design
- Compact design, perfect for tight spaces
- Bluetooth communication for convenient diagnosis

Show Product

VEGABAR 38

Hydrostatic pressure transmitter for level measurement in the caustic water basin

- Ceramic CERTEC® measuring cell is totally resistant to caustic water
- Good cleanability thanks to flush mounting
- Bluetooth communication for easy operation

Show Product

VEGAPOINT 21

Capacitive point level sensor for limit level monitoring in the caustic water basin

- 360° status display for quick and easy recognition of switching status
- Compact design facilitates cleaning
- Bluetooth communication for easy diagnosis

Show Product

Reliable

The materials used do not interact with the medium.

Cost effective

Maximum process efficiency is guaranteed through reliable measurement

User friendly

Standardized adapter system for all process fittings

Condenser

Condenser pressure and point level measurement.

In the condenser, potable water evaporated as steam and condensed to form pure, clean water . Inside the condenser there is a cooling system that cools the steam to make it condense. The feed of cooling liquid is monitored in the pipeline. Point level detection ensures that sufficient condensate is present to prevent steam from directly entering the circulation reservoir.

More details

VEGABAR 83

Pressure transmitter for measurement in pipelines

- The materials used have no effect on the purified water.
- Good cleanability thanks to hygienic design
- Metallic measuring cell for front-flush pressure measurement, even at high temperatures

Show Product

VEGABAR 28

Pressure transmitter for pressure measurement in the coolant inlet

- Ceramic CERTEC® measuring cell is resistant to aggressive cooling medium
- Reliable measurement, even with the formation of condensation, thanks to encapsulated measuring cell
- Compact design facilitates installation

Show Product

VEGAPOINT 21

Capacitive level switch for point level detection in the condenser

- Reliable switching point in water and steam
- Good cleanability thanks to hygienic design
- 360° visible display of the switching status

Show Product

Reliable

The materials used do not interact with the medium.

Cost effective

Maximum process efficiency is guaranteed through reliable measurement

User friendly

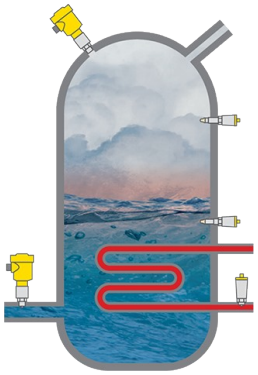
Standardized adapter system for all process fittings

Steam separator

Steam separator pressure measurement and point level detection.

In the production of purified water, the process begins with tap water being fed into the steam separator. The tap water evaporates there and is fed into the condenser. Evaporation is effected by a heat exchanger supplied with saturated steam. To ensure that the heat exchanger is always covered with tap water, reliable level detection is required. The pressure inside the steam separator must be kept constant in order to achieve maximum efficiency.

More details



VEGABAR 83

Pressure transmitter for gauge pressure measurement in the vapour phase

- Good cleanability thanks to hygienic design
- Approved materials according to EC 1935/2004 and FDA
- Elastomer-free transmitter construction reduces maintenance costs

Show Product

VEGABAR 29

Pressure transmitter for pressure measurement in the saturated steam pipeline

- Accurate process control thanks to fast response time
- Installation above water pocket tube allows use even at high temperatures
- Easy-to-read display with VDMA menu structure that includes plain text descriptions

Show Product

VEGAPOINT 21

Capacitive level switch for point level detection in the steam separator

- Reliable switching point in water and steam
- Good cleanability thanks to hygienic design
- 360° display of the switching status
- IO-Link connection for simple integration

Show Product

Reliable

Certified materials according to FDA and EC 1935/2004 regulations

Cost effective

Maintenance-free operation

User friendly

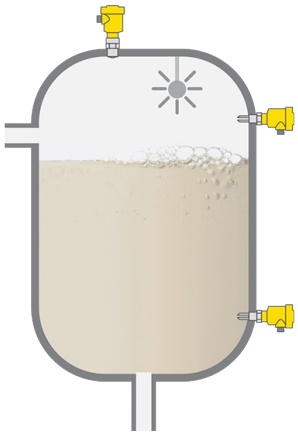
Simple mounting

Cleaning agent storage tank of the CIP system

Level measurement and point level detection in the cleaning agent storage tank of the CIP system

The cleaning of process equipment in the food industry takes place within the framework of validated "Cleaning in Place (CIP)" processes that ensure aseptic conditions in production tanks. Sodium hydroxide or concentrated acid are frequently used as cleaning agents, which are stored in the storage tank of the CIP system and diluted in the production vessel. Level measurement enables optimal storage of these cleaning agents. Point level detection serves as overfill and dry run protection.

More details



VEGAPULS 6X

Radar sensor for continuous level measurement in the cleaning agent storage tank

- Very good focusing with small beam angle of only 4°
- Reliable measurement, unaffected by condensate formation
- Long service life thanks to high chemical resistance

Show Product

VEGASWING 61

Vibrating level switch as overfill and dry run protection

- Reliable detection of the limit level, independent of medium
- Enamel coating ensures long service life of sensor
- Simple setup without adjustment

Show Product

Reliable

Reliable detection prevents excessive accumulation of foam

Cost effective

Savings through effective CO2 separation

User friendly

Simple setup via the VEGA Tools app

CO2 separator

Water level and foam detection in the CO2 separator

CO2 is produced during the fermentation process in the fermentation tank. It is captured to increase efficiency and used later in the filling process. To this end, CO2 recirculation systems are integrated in the brewing process. In whats known as a foam trap, the CO2 is fed into a small container and passed through a tank filled with water, in order to filter out any residues in the gas generated in fermentation. Foam is produced during this process. If too much foam accumulates, it has to be flushed out at an early stage. For this purpose, a fine spray of water is introduced via a spray ball to 'kill the foam'. A point level detection system ensures a reliable and efficient flushing process and reduces water consumption.

More details

VEGAPOINT 11

Capacitive level switch as dry run protection in the CO2 separator

- Adjustment-free setup
- 360° status display for quick and easy recognition of process status

Show Product

VEGAPOINT 21

Capacitive level switch as both water level and foam detector in the CO2 separator

- Detection signals from foam and water level can be transmitted via separate outputs
- 360° status display for quick and easy recognition of process status
- Simple parameterisation via the VEGA Tools app

Show Product

BASIC

VEGABAR 28

Show Product

Pressure sensor with switching function

Measuring range - Pressure
-1 ... 60 bar

Process temperature
-40 ... 130 °C

Accuracy
0.3 %

Materials, wetted parts
PVDF
Duplex (1.4462)
Ceramic
316/316L

Threaded connection
≥ G¼, ≥ ¼ NPT

Hygenic fittings
Clamp ≥ 2", DN50 - DIN32676, ISO2852
Clamp ≥ 1" - DIN32676, ISO2852
Clamp ≥ 1½" - DIN32676, ISO2852
Slotted nut ≥ DN25 - DIN 11851
Slotted nut ≥ DN32 - DIN 11851
SMS 1145 DN51
SMS DN38
Hygienic fittings ≥ DN25 - DIN11864-1-A
Hygienic fittings ≥ DN40 - DIN11864-1-A
Varivent N50-40
SMS DN25
Ingold connection PN10
Varivent F25

Seal material
EPDM
FKM
FFKM

Protection rating
IP65
IP68 (0,5 bar)/IP69

Output
4 … 20 mA
Three-wire (PNP/NPN, 4 … 20 mA)
IO-Link

Ambient temperature
-40 ... 70 °C

BASIC

VEGABAR 29

Show Product

Pressure sensor with switching function

Measuring range - Pressure
-1 ... 1000 bar

Process temperature
-40 ... 130 °C

Accuracy
0.3 %

Materials, wetted parts
316L

Threaded connection
≥ G¼, ≥ ¼ NPT

Hygenic fittings
Clamp ≥ 2", DN50 - DIN32676, ISO2852
Clamp ≥ 1" - DIN32676, ISO2852
Clamp ≥ 1½" - DIN32676, ISO2852
Slotted nut ≥ 1½", ≥ DN40 - DIN 11851
Slotted nut ≥ DN25 - DIN 11851
SMS 1145 DN51
SMS DN38
Hygienic fittings ≥ DN25 - DIN11864-1-A
Hygienic fittings ≥ DN40 - DIN11864-1-A
Varivent N50-40
SMS DN25
Ingold connection PN10
Varivent F25

Protection rating
IP65
IP68 (0,5 bar)/IP69

Output
4 … 20 mA
Three-wire (PNP/NPN, 4 … 20 mA)
IO-Link

Ambient temperature
-40 ... 70 °C

BASIC

VEGABAR 38

Show Product

Pressure sensor with switching function

Measuring range - Pressure
-1 ... 60 bar

Process temperature
-40 ... 130 °C

Accuracy
0.3 %

Materials, wetted parts
PVDF
316L
Duplex (1.4462)
Ceramic

Threaded connection
≥ G¼, ≥ ¼ NPT

Hygenic fittings
Clamp ≥ 2", DN50 - DIN32676, ISO2852
Clamp ≥ 1" - DIN32676, ISO2852
Clamp ≥ 1½" - DIN32676, ISO2852
Slotted nut ≥ 1½", ≥ DN40 - DIN 11851
Slotted nut ≥ DN25 - DIN 11851
SMS DN38
Hygienic fittings ≥ DN25 - DIN11864-1-A
Hygienic fittings ≥ DN40 - DIN11864-1-A
Varivent N50-40
SMS DN25
Ingold connection PN10
Varivent F25

Seal material
EPDM
FKM
FFKM

Housing material
Plastic

Protection rating
IP66/IP67
IP65

Output
4 … 20 mA
Three-wire (PNP/NPN, 4 … 20 mA)
IO-Link

BASIC	PRO	PRO
VEGABAR 39 Show Product	**VEGABAR 82** Show Product	**VEGABAR 83** Show Product
		
Pressure sensor with switching function	Pressure transmitter with ceramic measuring cell	Pressure transmitter with metallic measuring cell
Measuring range - Pressure -1 ... 1000 bar	**Measuring range - Distance** -	**Measuring range - Distance** -
Process temperature -40 ... 130 °C	**Measuring range - Pressure** -1 ... 100 bar	**Measuring range - Pressure** -1 ... 1000 bar
Accuracy 0.3 %	**Process temperature** -40 ... 150 °C	**Process temperature** -40 ... 200 °C
Materials, wetted parts 316L	**Process pressure** -1 ... 100 bar	**Process pressure** -1 ... 1000 bar
Threaded connection ≥ G¼, ≥ ¼ NPT	**Accuracy** 0.05 %	**Accuracy** 0.075 %
Hygenic fittings Clamp ≥ 2", DN50 - DIN32676, ISO2852 Clamp ≥ 1" - DIN32676, ISO2852 Clamp ≥ 1½" - DIN32676, ISO2852 Slotted nut ≥ DN25 - DIN 11851 Slotted nut ≥ DN32 - DIN 11851 SMS 1145 DN51 SMS DN38 Hygienic fittings ≥ DN25 - DIN11864-1-A Hygienic fittings ≥ DN40 - DIN11864-1-A Varivent N50-40 SMS DN25 Ingold connection PN10 Varivent F25	**Materials, wetted parts** PVDF 316L Alloy C22 (2.4602) PP 1.4057 1.4410 Alloy C276 (2.4819) Duplex (1.4462) Titanium Grade 2 (3.7035)	**Materials, wetted parts** 316L Alloy C22 (2.4602) 316Ti (1.4571) Alloy C4 (2.4610)
Housing material Plastic	**Threaded connection** ≥ G¼, ≥ ¼ NPT	**Threaded connection** ≥ G½, ≥ ½ NPT
Protection rating IP66/IP67	**Flange connection** ≥ DN15, ≥ ½"	**Flange connection** ≥ DN25, ≥ 1"
Output 4 … 20 mA Three-wire (PNP/NPN, 4 … 20 mA) IO-Link	**Hygenic fittings** Clamp ≥ 1" - DIN32676, ISO2852 Slotted nut ≥ DN25 - DIN 11851 hygienic fitting with tension flange DN32 hygienic fitting F40 with compression nut DRD connection ø 65 mm SMS 1145 DN51 SMS DN38 Swagelok VCR screwing Varivent G125 Varivent N50-40 for NEUMO BioControl D50 PN16 / 316L	**Hygenic 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 ... 70 °C	**Seal material** EPDM FKM FFKM	**Seal material** no media contact

BASIC

VEGAPOINT 11

Show Product

Ultra-compact capacitive limit switch

Measuring range - Distance
-

Process temperature
-20 ... 100 °C

Process pressure
-1 ... 64 bar

Materials, wetted parts
316L
PEEK

Threaded connection
≥ G½, ≥ ½ NPT

Seal material
EPDM
FKM

Protection rating
IP66/IP67
IP69

Output
Transistor (PNP)
IO-Link

Ambient temperature
-40 ... 70 °C

BASIC

VEGAPOINT 21

Show Product

Compact capacitive limit switch

Measuring range - Distance
-

Process temperature
-40 ... 115 °C

Process pressure
-1 ... 64 bar

Materials, wetted parts
316L
PEEK

Threaded connection
≥ G½, ≥ ½ NPT

Hygenic fittings
Clamp ≥ 2", DN50 - DIN32676, ISO2852
Clamp ≥ 1" - DIN32676, ISO2852
Clamp ≥ 1½" - DIN32676, ISO2852
Slotted nut ≥ 1½", ≥ DN40 - DIN 11851
Slotted nut ≥ DN25 - DIN 11851
Slotted nut ≥ DN32 - DIN 11851

Seal material
EPDM
FKM

Protection rating
IP66/IP67
IP69

Output
Transistor (NPN/PNP)
IO-Link

Ambient temperature
-40 ... 70 °C

BASIC

VEGAPOINT 23

Show Product

Compact capacitive limit switch with tube extension

Measuring range - Distance
-

Process temperature
-40 ... 115 °C

Process pressure
-1 ... 64 bar

Materials, wetted parts
316L
PEEK

Threaded connection
≥ G½, ≥ ½ NPT

Hygenic fittings
Clamp ≥ 2", DN50 - DIN32676, ISO2852
Clamp ≥ 1" - DIN32676, ISO2852
Clamp ≥ 1½" - DIN32676, ISO2852
Slotted nut ≥ 1½", ≥ DN40 - DIN 11851
Slotted nut ≥ DN25 - DIN 11851
Slotted nut ≥ DN32 - DIN 11851

Seal material
EPDM
FKM

Protection rating
IP66/IP67
IP69

Output
Transistor (NPN/PNP)
IO-Link

Ambient temperature
-40 ... 70 °C

PRO

VEGAPULS 6X

Show Product

Radar sensor for continuous level measurement of liquids and bulk solids

Measuring range - Distance
120 m

Process temperature
-196 ... 450 °C

Process pressure
-1 ... 160 bar

Accuracy
± 1 mm

Frequency
6 GHz
26 GHz
80 GHz

Beam angle
≥ 3°

Materials, wetted parts
PTFE
PVDF
316L
PP
PEEK

Threaded connection
≥ G¾, ≥ ¾ NPT

Flange connection
≥ DN20, ≥ ¾"

Hygenic 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
Hygienice flange connection ≥ DN50 DIN11864-2
Hygienic clamp connection ≥ DN50 pipe Ø53 - DIN11864-3-A
DRD connection ø 65 mm
SMS 1145 DN51

PRO

VEGASWING 61

Show Product

Vibrating level switch for liquids

Measuring range - Distance
-

Process temperature
-50 ... 250 °C

Process pressure
-1 ... 64 bar

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

Threaded connection
≥ G¾, ≥ ¾ NPT

Flange connection
≥ DN25, ≥ 1"

Hygenic 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

Housing material
Plastic
Aluminium
Stainless steel (precision casting)
Stainless steel (electropolished)

Reliable

Approvals for hazardous areas

Cost effective

Process instrumentation secures ongoing plant operation

User friendly

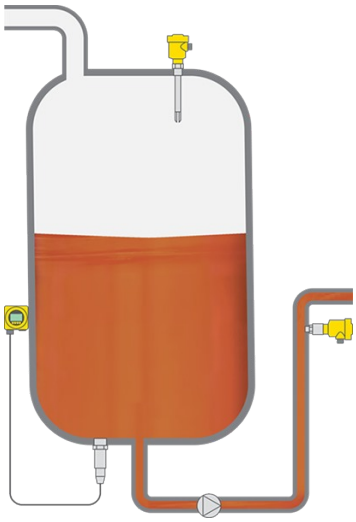
Standardised operation of all sensors

Storage tanks for alcohol

Level measurement and point level detection in the storage tank

Alcohol storage tanks are considered potentially explosive and are therefore kept in special rooms. When the alcohol is needed, it is pumped directly to the appropriate production vessel through a ”ring main” supply system. Reliable measuring instruments are required for dependable measurement of the level in the tank and for monitoring the feed pressure in the pipeline.

More details



VEGABAR 82

Pressure transmitter for level measurement in the alcohol tank and for monitoring pressure in the supply main

- External housing allows easy reading of measured values in hazardous areas
- Small process fittings on the pipeline
- Resistant to dynamic CIP and SIP cleaning

Show Product

VEGASWING 63

Vibrating level switch in the alcohol tank for overfill protection

- Maintenance-free tuning fork reliably detects switch-off point regardless of the consistency of the alcohols
- Simple setup without adjustment
- Maximum reliability and safety in hazardous areas

Show Product

Reliable

Certified materials according to FDA and EC 1935/2004 regulations

Cost effective

Easy cleaning of the vessel

User friendly

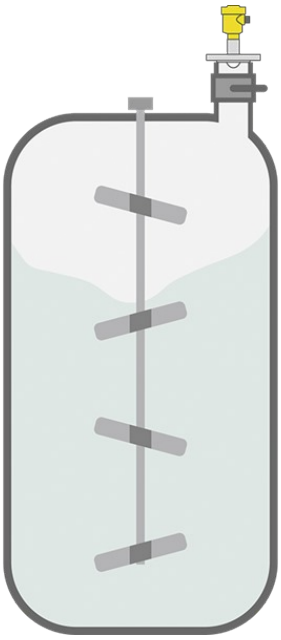
Simple installation through existing ball valves

Reaction vessel with agitator

Level measurement during the production of chewing gum base

Production of polyvinyl acetate – the base material for chewing gum – is carried out in a reaction vessel with a four stage agitator. The various raw materials begin to react when they are mixed by the agitator. To ensure smooth production, accurate level measurement is required.

More details



VEGAPULS 6X

Radar sensor for level measurement during the polymerization of chewing gum base in the reaction vessel

- Measuring results unaffected by agitator thanks to false signal suppression
- Strong focusing through small beam angle
- Measurement down to vessel bottom, even in media with low dielectric constant

Show Product

Reliable

Certified materials according to FDA and EC 1935/2004 regulations

Cost effective

Process instrumentation ensures continuous operation

User friendly

Simple setup and commissioning

Storage tank for liquid foodstuffs

Level measurement in storage tanks for liquid foodstuffs

In the food industry, liquid media such as glucose, fruit juice or syrup must always be kept in stock. To get them ready for the production process, some liquids must be either pre-cooled or pre-heated, while still in the storage tanks. This is done by means of a water-filled ‘jacketed’ container wall that can be either cooled or heated. To ensure uninterrupted production, a reliable level measurement is essential.

More details

VEGABAR 82

Pressure transmitter for level measurement in storage tanks with liquid media

- Hygienic design with certified process fittings
- High system availability: low maintenance thanks to self-monitoring, wear-free CERTEC® measuring cell
- Reaction time only 80 ms: rapid level changes are easily detected

Show Product

PRO

VEGABAR 82

Show Product

Pressure transmitter with ceramic measuring cell

Measuring range - Distance
-

Measuring range - Pressure
-1 ... 100 bar

Process temperature
-40 ... 150 °C

Process pressure
-1 ... 100 bar

Accuracy
0.05 %

Materials, wetted parts
PVDF
316L
Alloy C22 (2.4602)
PP
1.4057
1.4410
Alloy C276 (2.4819)
Duplex (1.4462)
Titanium Grade 2 (3.7035)

Threaded connection
≥ G¼, ≥ ¼ NPT

Flange connection
≥ DN15, ≥ ½"

Hygenic fittings
Clamp ≥ 1" - DIN32676, ISO2852
Slotted nut ≥ DN25 - DIN 11851
hygienic fitting with tension flange DN32
hygienic fitting F40 with compression nut
DRD connection ø 65 mm
SMS 1145 DN51
SMS DN38
Swagelok VCR screwing
Varivent G125
Varivent N50-40
for NEUMO BioControl D50 PN16 / 316L

Seal material
EPDM
FKM
FFKM

PRO

VEGAPULS 6X

Show Product

Radar sensor for continuous level measurement of liquids and bulk solids

Measuring range - Distance
120 m

Process temperature
-196 ... 450 °C

Process pressure
-1 ... 160 bar

Accuracy
± 1 mm

Frequency
6 GHz
26 GHz
80 GHz

Beam angle
≥ 3°

Materials, wetted parts
PTFE
PVDF
316L
PP
PEEK

Threaded connection
≥ G¾, ≥ ¾ NPT

Flange connection
≥ DN20, ≥ ¾"

Hygenic 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
Hygienice flange connection ≥ DN50 DIN11864-2
Hygienic clamp connection ≥ DN50 pipe Ø53 - DIN11864-3-A
DRD connection ø 65 mm
SMS 1145 DN51

PRO

VEGASWING 63

Show Product

Vibrating level switch with tube extension for liquids

Process temperature
-50 ... 250 °C

Process pressure
-1 ... 64 bar

Version
Standard
Hygienic applications
with gas-tight leadthrough
with tube extension
with temperature adapter

Materials, wetted parts
PFA
316L
Alloy C22 (2.4602)
Alloy 400 (2.4360)
ECTFE
Enamel

Threaded connection
≥ G¾, ≥ ¾ NPT

Flange connection
≥ DN25, ≥ 1"

Hygenic 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

Housing material
Plastic
Aluminium
Stainless steel (precision casting)
Stainless steel (electropolished)

Protection rating
IP66/IP67
IP66/IP68 (1 bar)
IP65

Reliable

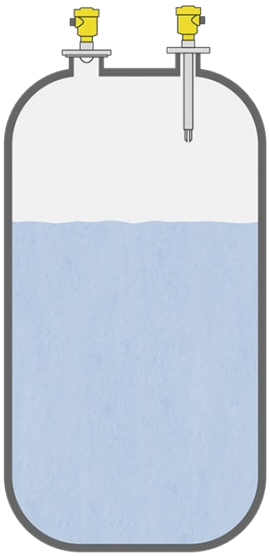
Reliable protection against overfilling

Cost effective

Independent of product and process characteristics

User friendly

Simple to set up with maintenance-free operation



Storage and buffer tanks

Level measurement and point level detection in small storage and buffer tanks

Storage and buffer tanks enable a reliable material supply for various ongoing processes. The plant operators need to have exact level data from these tanks at all times to ensure timely replenishment and facilitate continuous production. In addition, the measured values form the basis of the statistical consumption analysis for validation and quality monitoring.

More details

VEGAPULS 6X

Continuous level measurement with radar

- High chemical resistance through PTFE antenna cover
- Reliable measurement despite changing media
- Maintenance-free thanks to non-contact measurement

Show Product

VEGASWING 63

Vibrating level switch for point level detection

- Universally applicable as overfill and dry run protection system for virtually all liquid applications
- Media-independent switching point, reliable level information
- Highly resistant materials and coatings allow use in different media
- Test button for easy testing of instrument functionality during operation

Show Product

Reliable

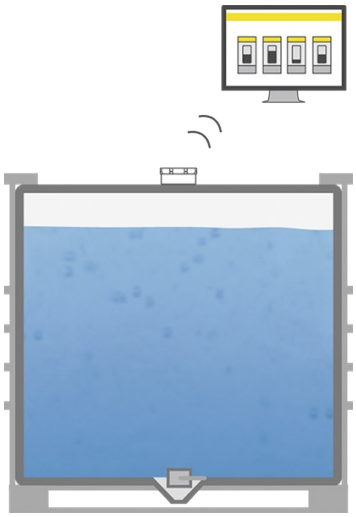
Accurate measurement down to the bottom of the vessel

Cost effective

Sensor is quick and easy to install

User friendly

Visualised display of measurements



IBC-Tank (plastic)

Level measurement of liquids in transport containers

In many of the production processes in the chemical industry, small quantities of various chemicals are needed in order to improve the characteristics of certain products. The media are often provided directly to the production areas in small, transport containers. Accurate level measurement ensures a continuous supply of materials for production.

More details

VEGAPULS Air 23

Autarkic radar sensor for non-contact level measurement in IBC containers

- Precise measurement right through the container top thanks to 80-GHz radar technology
- Precise measured values regardless of the medium
- Autarkic sensor with its own power supply and wireless transmission of measured values

Show Product

VEGA Inventory System

Software for acquisition and visualization of level data.

- Easy access to live data around the clock
- Accurate, up-to-date information on filling levels
- Numerous functions simplify inventory management
- Fully automatic and timely notification of replenishment requirements
- Increased security of supply

Show Product

	PRO	AIR
VEGA Inventory System **Show Product**	**VEGAPULS 6X** **Show Product**	**VEGAPULS Air 23** **Show Product**
		
VEGA hosted software solution of remote and inventory monitoring	Radar sensor for continuous level measurement of liquids and bulk solids	Autarkic, continuous level measurement in plastic vessels
	Measuring range - Distance 120 m	**Measuring range - Distance** 3 m
	Process temperature -196 ... 450 °C	**Process temperature** -20 ... 60 °C
	Process pressure -1 ... 160 bar	**Accuracy** ± 5 mm / ± 0.2"
	Accuracy ± 1 mm	**Frequency** 80 GHz
	Frequency 6 GHz 26 GHz 80 GHz	**Beam angle** 8°
	Beam angle ≥ 3°	**Threaded connection** via adhesive, ceiling or tension belt mounting
	Materials, wetted parts PTFE PVDF 316L PP PEEK	**Housing material** Plastic / PVDF
	Threaded connection ≥ G¾, ≥ ¾ NPT	**Protection rating** IP69
	Flange connection ≥ DN20, ≥ ¾"	**Output** NB-IoT (LTE-Cat-NB1), LTE-M (LTECAT-M1), LoRa WAN
	Hygenic 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 Hygienice flange connection ≥ DN50 DIN11864-2 Hygienic clamp connection ≥ DN50 pipe Ø53 - DIN11864-3-A DRD connection ø 65 mm SMS 1145 DN51	**Ambient temperature** -20 ... 60 °C

PRO

VEGASWING 63

Show Product

Vibrating level switch with tube extension for liquids

Process temperature

-50 ... 250 °C

Process pressure

-1 ... 64 bar

Version

Standard
Hygienic applications
with gas-tight leadthrough
with tube extension
with temperature adapter

Materials, wetted parts

PFA
316L
Alloy C22 (2.4602)
Alloy 400 (2.4360)
ECTFE
Enamel

Threaded connection

≥ G¾, ≥ ¾ NPT

Flange connection

≥ DN25, ≥ 1"

Hygenic 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

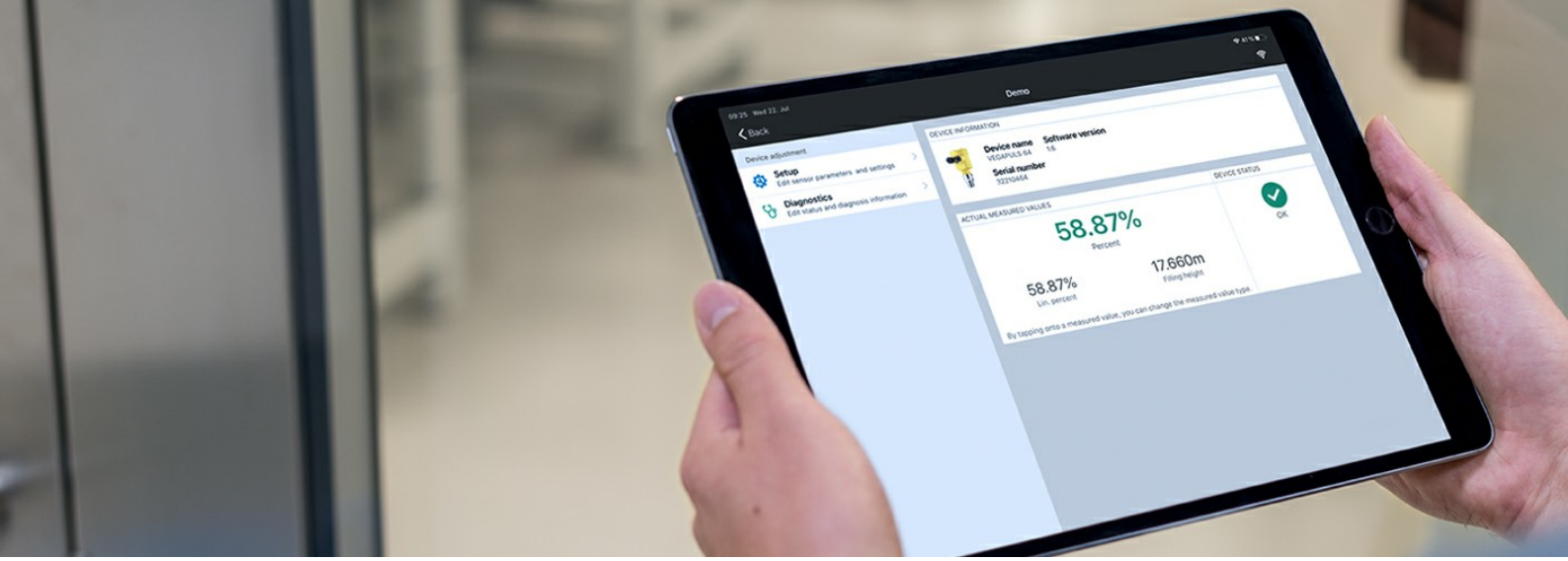
no media contact

Housing material

Plastic
Aluminium
Stainless steel (precision casting)
Stainless steel (electropolished)

Protection rating

IP66/IP67
IP66/IP68 (1 bar)
IP65

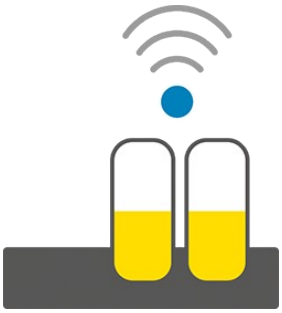


Interconnected solutions

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

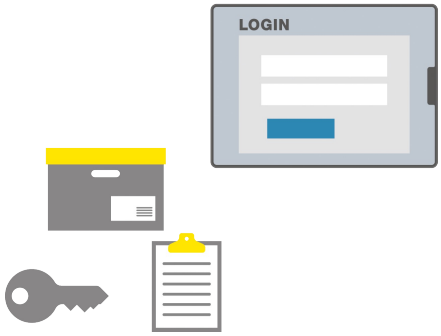


VEGA Inventory System

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