



Reliable

Highly overload-resistant measuring systems

Cost effective

Accurate level measurement for optimal utilization of the container volumes

User friendly

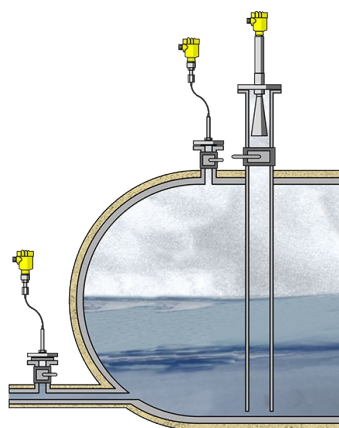
Easy instrument selection: one sensor version fits all tank sizes

Expansion tank in a thermal solar plant

Level and pressure measurement of heat transfer fluid (HTF) in expansion tanks

The solar heat captured in the mirror system of a thermal solar plant is transported via a heat transfer fluid (HTF) to the steam generator at the central turbine. The HTF normally has a temperature between 300 °C and 400 °C. There are different containers for the fluid across the plant and the varying temperatures cause volume changes to the HTF that need to be accurately measured to operate the plant safely and profitably.

[More details](#)



VEGAPULS 6X

Non-contact level measurement with radar in the expansion vessel for heat transfer fluid

- Reliable function, even at high temperatures
- High-resistance materials guarantee long service life
- Wear-free operation ensured through non-contact measuring method

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VEGABAR 81

Pressure measurement in the thermal solar plant pipeline systems

- Highly resistant to overloading due to pressure surges
- Long service life thanks to seal-free measuring cells
- Wear and maintenance-free due to high-resistance diaphragm materials

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Reliable

Reliable level measurement ensures smooth operation

Cost effective

Large storage reserves available through optimal utilization of tank volume

User friendly

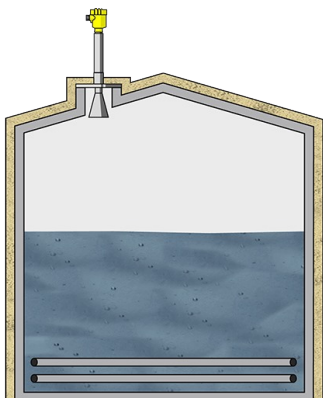
Maintenance-free through non-contact measuring method

Molten salt storage in a thermal solar plant

Level measurement in the molten salt storage tank

The important criterion for the location a thermal solar plant is gaining the optimal amount of sunlight energy available at that site over the year. Molten salt is used to store this thermal energy produced on the days when there is abundant sunshine, this enables the production of electricity even on days with little or no direct sunlight via a heat exchange process. This molten salt is usually stored in two large vessels. One vessel contains salt at a lower temperature (approx. 300° C), the other contains salt at a higher temperature (approx. 400° C). Accurate level measurement is essential to monitor the system capacity.

[More details](#)





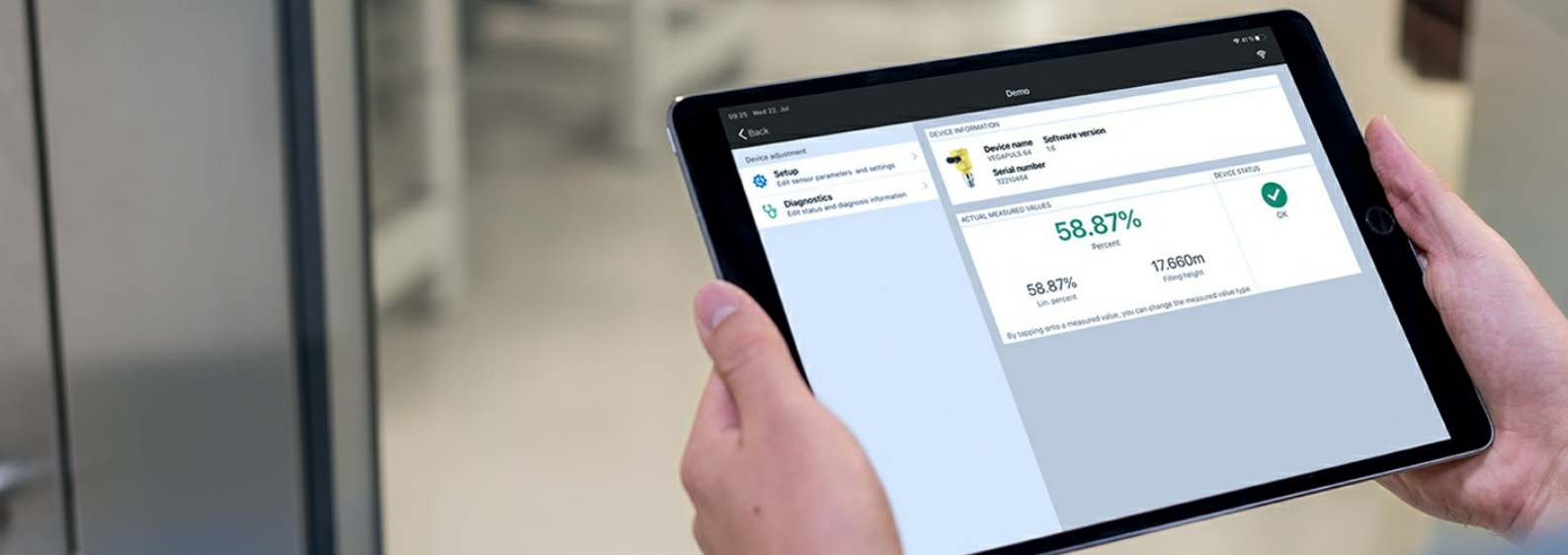
VEGAPULS 6X

Non-contact level measurement with radar in a molten salt storage tank.

- High measuring precision, independent of product properties
- Reliable measurement for extremely high temperature ranges
- Maintenance free due to contactless measurement

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PRO	PRO
VEGABAR 81 Show Product	VEGAPULS 6X Show Product
	
Pressure transmitter with chemical seal	Radar sensor for continuous level measurement of liquids and bulk solids
Measuring range - Distance -	Measuring range - Distance 120 m
Measuring range - Pressure -1 ... 1000 bar	Process temperature -196 ... 450 °C
Process temperature -90 ... 400 °C	Process pressure -1 ... 160 bar
Process pressure -1 ... 1000 bar	Accuracy ± 1 mm
Accuracy 0.2 % 0.1 %	Frequency 6 GHz 26 GHz 80 GHz
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)	Beam angle ≥ 3°
Threaded connection ≥ G½, ≥ ½ NPT	Materials, wetted parts PTFE PVDF 316L PP PEEK
Flange connection ≥ DN25, ≥ 1"	Threaded connection ≥ G¾, ≥ ¾ NPT
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	Flange connection ≥ DN20, ≥ ¾"
Seal material no media contact	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 Hygienice flange connection ≥ DN50 DIN11864-2 Hygienic clamp connection ≥ DN50 pipe Ø53 - DIN11864-3-A DRD connection ø 65 mm SMS 1145 DN51



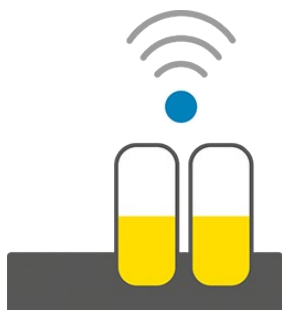
Interconnected solutions



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

