



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](#)

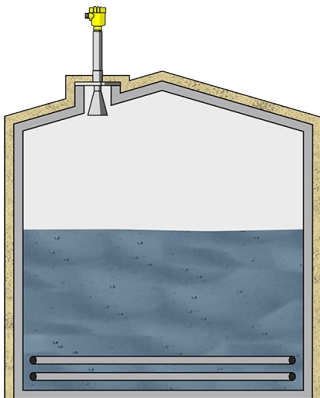


VEGAPULS 6X

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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VEGAPULS 6X
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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"

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