Reliable

Highly accurate measurement of even low-density materials

Cost effective

Precise level measurement for optimal storage

User friendly

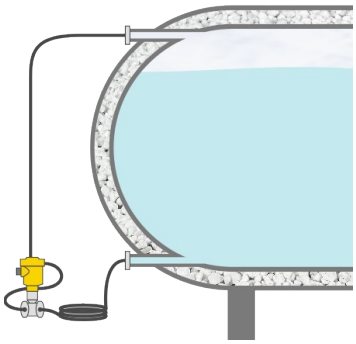
Simple installation without standpipe

Hydrogen tanker with liquid hydrogen

Level measurement in a liquid hydrogen tank

If energy-rich hydrogen has to be transported over long distances, special tanker ships are used. To minimise losses, the hydrogen is cooled down to -253 °C at 1 bar pressure so that it can be stored in liquid form. The level can be measured either by means of thin impulse lines and conventional differential pressure or free-radiating radar. An elaborate standpipe, which would also lead to increased heat input, is not required.

More details



VEGADIF 85

Level measurement via differential pressure in a tank holding liquid hydrogen

- Reliable measurement thanks to diaphragm with gold coating
- Precise measured values, even with very low hydrostatic pressures
- Output of differential as well as static pressure through a second current output

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Measuring range - Pressure
-40 ... 40 bar

Process temperature
-40 ... 105 °C

Process pressure
-1 ... 400 bar

Accuracy
0.065 %

Materials, wetted parts
316L
Tantalum
Alloy C276 (2.4819)
Monel

Threaded connection
¼ - 18 NPT

Flange connection
≥ DN32, ≥ 1⅜"

Seal material
EPDM
FKM
Copper

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

Protection rating
IP66/IP68 (0,2 bar)
IP66/IP67
IP66/IP68 (1 bar)