Reliable

Highly accurate measurement of even low-density materials

Cost effective

Accurate measurement for optimal storage

User friendly

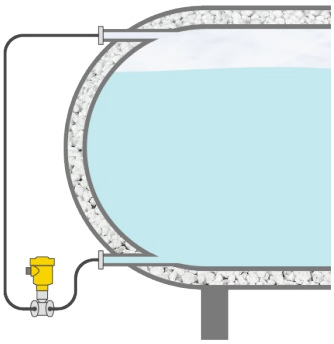
Installation in the double-walled container not necessary

Liquid hydrogen storage tank

Level measurement in a storage tank for liquid hydrogen

To store hydrogen with as little loss as possible, it must be cooled down to -253 °C at 1 bar so that it is in a liquid state. Liquid hydrogen is therefore stored in double-walled, insulated containers. In addition, the liquid hydrogen is overlaid with gaseous hydrogen. When liquid hydrogen leaves the insulated container, it evaporates immediately and heats up to room temperature. The level is measured reliably using the traditional differential pressure method.

More details



VEGADIF 85

Level measurement with differential pressure in the liquid hydrogen storage tank

- Reliable measurement thanks to diaphragm with gold coating
- Output of differential and absolute 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)