

High-Frequency Level Sensors HFS 202 T



- Vertical mounting in tanks, vessels, sumps, and containers by means of tubular extender
- For reliable limit level sensing of various liquids, slurries and pastes
- Resistant to adhesion of viscous and adhering media (ketchup, yogurt, syrup, oil with build-up, paint, cleaning agents, etc.)
- Replacement of vibration level sensors
- Easy setting with a magnetic pen
- The version with a protective crown for in stallation in places with a risk of mechanical damage of the sensor
- Sensor housing made from AISI 316L SS

High-Frequency Level Sensors

Technical Specifications

Supply voltage	7 34 V DC
Current consumption	max. 5 mA DC
Output type	PNP (open collector)
Status indication	2x LED (orange, green)
Max. switching current (PNF	output) 300 mA
Residual voltage in closed	d state max. 1.5 V
Protection class	IP66
Cable	PVC 3 x 0.5 mm
Weight (without cable)	Approx. 0.15 kg
Setup technique	Magnetic pen
Electrode coating	PEEK
Relative permittivity of me	edium $\epsilon_{\rm p} \ge 1.5$

Temperature And Pressure Resistance - Performance N

Performance / variant	Temperature	maximum overpressure
HFS202 T	-40 °C +80 °C	10 MPa

High-Frequency Level Sensors

Industrial use for limit level sensing of liquid and paste media. It is designed for vertical mounting in the tank or using a tubular extender (see the technical data sheet for accessories) or a bracket.

It can directly replace vibrating level sensors, or capacitive level sensors in more de manding applications. Media can be electrically conductive as well as non-conductive. The sensor can be installed in metal or plastic tanks, filling tanks, rail car boom arms, sumps, etc.

Basic Features And Variants

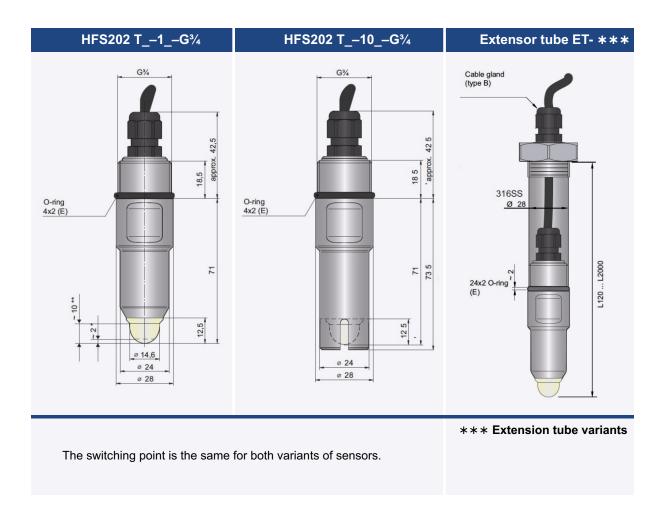
Variants				
Name	Minimum temperature	Туре		
HSF202 T	From -40 °C	EPDM O-ring		
HFS202 T	From -40 °C	With protective crown, EPDM O-ring		

Materials

Part of the sensor		Standard material*
Housing (case)		Stainless steel W.Nr. 1.4404 (AISI 316L)
Enclosure		Polycarbonate
Electrode coating	Туре	PEEK
O-ring seal	Туре	EPDM
Cable gland		PA / NBR plastics

High-Frequency Level Sensors

Dimensional Drawings



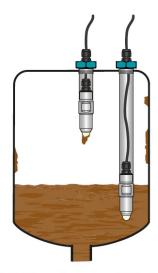


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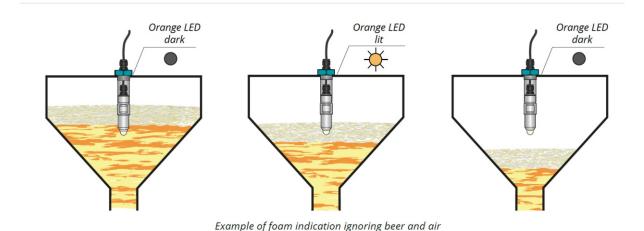
Mounting and Calibration Recommendations:

Thanks to its construction, the sensor is also suitable for detecting le vels of both viscous and electrically conductive media (yoghurt, jams, mayonnaise, spreads, liquid soaps, creams, and pastes). After setting the sensitivity to a specific medium, the sensor reliably reacts to the presence or absence of medium level. The sensor does not react to residues and deposits of viscous media on the measuring electrode.

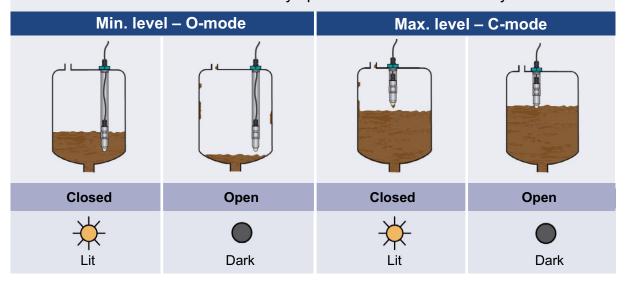
The sensor can also be used to distinguish a specific medium from others using the "Medium window" function. E.g. the sensor can distinguish oil from water and air, can detect only beer foam and ignore beer and air, etc.



Installation of sensors in the tank filled with a viscous medium



The sensor can be set to normally open "O-mode" or to normally closed "C-mode"



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Order complete and ready for shipment

10%
10%
10%
10%

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