



Tank Stock management

MS_EXIA PROBE

THE SENSOR TO MEASURE LEVEL IN A TANK

FEATURES AND BENEFITS MAGNETOSTRICTIVE TECHNOLOGY

- High precision level sensors with magnetostrictive technology
- Detection of the product level, its temperature and water level
- All parts in contact with fuels are in stainless steel
- Maintenance free
- Permanent self-diagnosis
- A single float for all fuels on the market
- Also available for AdBlue
- Optional: float 1" screw in body
- Possibility of wireless connection to the Maser R_SMART TOP Console.

MASER MS_EXIA PROBE

The MASER MS_EXIA probe is a level and environmental sensor specifically designed to provide high control accuracy of volumes and any leaks in the tanks.

FUNCTIONS

The Maser MS_EXIA probe works according to the principles of the process of magnetostrictive measurement. A cable of magnetostrictive material is integrated inside the probe stem. Magnets are incorporated inside the floats which magnetize the cable exactly to the level of the product they measure. The probe's electronic sensor transmit current pulses along the cable. A circular magnetic field is thus generated. At the exact point where the floats are positioned, a torsional wave develops due to the overlap of the two magnetic fields. The wave propagates towards the probe head. In the head of the probe these waves are transformed into electrical signals. The exact position of the floats and the temperature are calculated and verified based on the difference in the wave propagation time.



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TECHNICAL SPECS

Standard set-up

Measuring length up to 6 meters

Product

- Measurement accuracy: ± 0.25 mm
- Repeatability: ± 0.05 mm
- Resolution: 0.01 mm
- Float: $\varnothing 45$ mm, 1 1/2 AISI 316 L (optional in different sizes)

Water

- Measurement accuracy: ± 0.25 mm
- Repeatability: ± 0.05 mm (diesel)
- Resolution: 0.01 mm
- Sensitivity threshold: 23 mm

Temperature

- Measurement range: $-40^{\circ} + 80^{\circ}$ C
- Measurement accuracy: $\pm 0,2^{\circ}$ C ($-20^{\circ} + 70^{\circ}$ C)
- Repeatability: $\pm 0.5^{\circ}$ C
- Resolution: 0.0625° C

Connection

- R3/4 NPT Threaded body with the possibility of continuous adjustment
- RS485 serial port

Electrical connection

- Plug-and-socket M12 12-24 Vdc power supply

Head container with protection

- IP68 up to 10 m water submersion for 24h

Sensor material

- Rod: 316 AISI
- Head: 304 AISI

Approvals

- ATEX, PESO, OIML R85.

