



## Tank Stock management

# MS\_EXIA FLEX PROBE

THE SENSOR TO MEASURE LEVEL IN HIGH VOLUME TANKS

### ADVANTAGES OF OUR TECHNOLOGY

- High precision level sensors with magnetostrictive technology
- Detection of the product level, its temperature and water level
- Measuring length up to 25 meters.
- Easy to install
- An adequate weight on the bottom of the probe guarantees a perfectly vertical installation
- The bottom of the probe is held securely in place by a magnet
- Installation also possible with 1"1/2 threaded connections
- Possibility of wireless connection to the Maser R\_SMART TOP Console.

### MS\_EXD FLEX PROBE

The MS\_EXIA FLEX Probe is a level and environmental sensor designed especially for large tanks; allowing the highest precision control of levels and volumes in the tanks.

### FUNCTIONS

When the installation of the MS\_EXIA FLEX Probe is completed, the corrugated tube is positioned vertically and both floats (product and water) can move freely by sliding up or down. The MS\_EXIA FLEX Probe works according to the principles of the magnetostrictive measurement process. A cable of magnetostrictive material is integrated inside the corrugated tube. The particular construction of the probe allows it to be folded so that it can be packed compactly and transported at low cost. A weight placed at the lower end of the probe stretches it along its entire length and guarantees the correct positioning on the bottom.



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## MS\_EXIA FLEX PROBE



### TECHNICAL SPECS

**Measuring length** up to 25 meters

#### Product

- Accuracy:  $\pm 1$  mm
- Repeatability:  $\pm 0.2$  mm
- Measurement level from: 185 mm
- Float:  $\varnothing 98$  mm

#### Water

- Accuracy:  $\pm 1$  mm
- Repeatability:  $\pm 0.2$  mm
- Measurement level from: 185 mm
- Float:  $\varnothing 98$  mm

#### Temperature

- Measurement range:  $-40 +80$  °C
- Accuracy:  $\pm 0,2$  °C ( $-20^{\circ}\text{C} +70^{\circ}\text{C}$ )
- Repeatability:  $\pm 0.5$  °C
- Resolution:  $0.00625$  °C

#### Fixing

- Threaded unit R 3/4 NPT
- Adaptability range approx. 500 mm

#### Electrical connection

- M12 plug-in

#### Head protection class

- IP68

#### Materials constituting the probe

- Head: 304 AISI
- Pipe: 316 AISI
- Corrugated tube and floats: 304 AISI
- Threaded unit and Fixing weight: 304 AISI
- Protective capsule of the magnet: Conductive

**Approval:** ATEX, OIML R85

### OPTIONS

- Wireless connection option.
- Fixing unit in stainless steel
- Fixing weight in 304 AISI/plastic

