

# VISY-Stick Flex

## Level Measurement for Large Storage Tanks

VISY-Stick Flex is a level and environmental sensor which is especially designed for large storage tanks.



### Functions

When the installation of the VISY-Stick Flex level sensor has been completed, the corrugated tube is positioned vertically and both the product and the water floater can freely move up and down. The VISY-Stick Flex sensor works according to the magnetostrictive measuring principle. A wire made of mag-

netostrictive material has been integrated into the flexible tube.

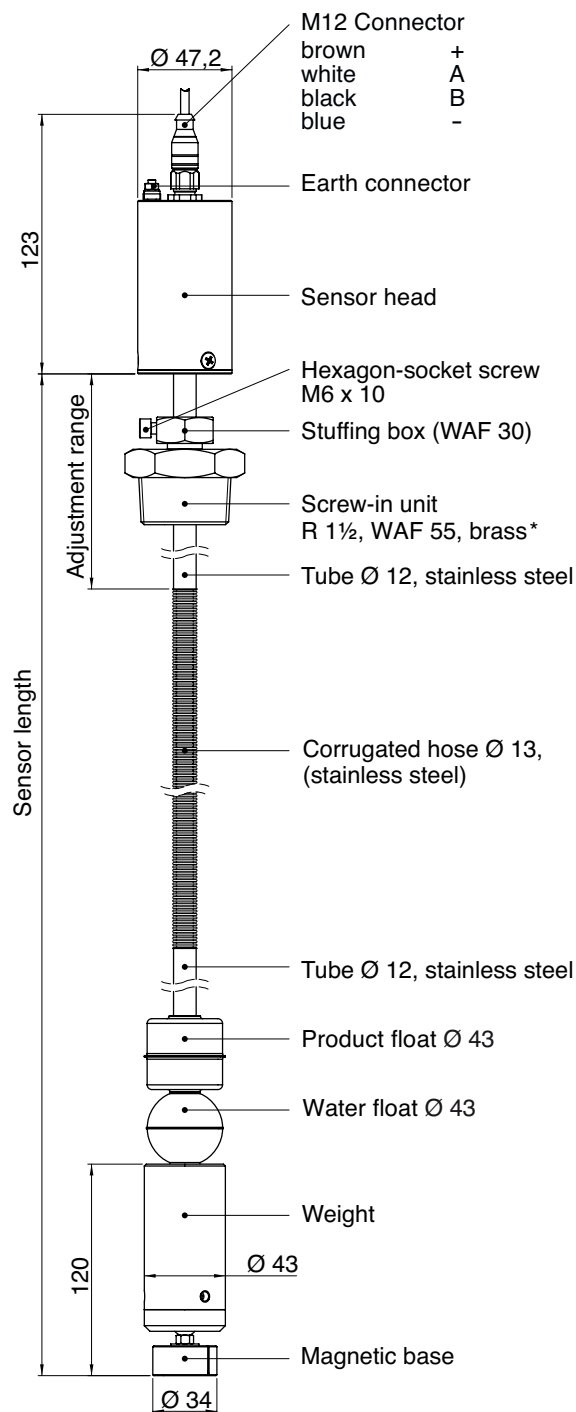
The special design of the sensor allows the sensor body to bend so the VISY-Stick Flex can be packed compactly and shipped at low cost. Another advantage is the easy installation. A weight at the lower end of the sensor

stretches it out to its full length, and a magnet placed below the weight secures the sensor to be in place. When the magnet is in contact with the bottom of the tank (after installation) any unintentional movement of the VISY-Stick Flex is avoided.

### Features of FAFNIR technology

- High precision sensor based on the magnetostrictive measuring principle
- Detects product level, product temperature and water level
- Sensor length up to 15 meters
- Compact packaging and easy transport thanks to corrugated tube
- Weight at end of sensor guarantees vertical installation
- Lower end of the sensor held in place by a magnet
- Installation in tanks with low ceiling height possible
- Easy installation
- Installation in 1½" process connection possible
- Wireless connection to a VISY-Command RF possible
- Maintenance-free

## VISY-Stick Flex



\* other materials on request

Dimensions in mm

### Technical Data

#### VISY-Stick Flex

» Measurement lengths up to 15 m

» Product

Accuracy:  $\pm 2$  mm;

Repeatability:  $\pm 0.5$  mm;

Response threshold:

185 mm\*;

Floater: 43 mm,  $\text{\O} 1\frac{1}{2}$ "

» Water

Accuracy:  $\pm 3$  mm;

Repeatability:  $\pm 0.5$  mm;

Response threshold:

160 mm\*;

Floater: 43 mm,  $\text{\O} 1\frac{1}{2}$ "

\* Product density and the position of the other float may result in variations

» Temperature

Measuring range:

- 40 °C to +85 °C;

Accuracy:  $\pm 1.5$  °C;

Repeatability:  $\pm 0.5$  °C;

Resolution: 0.001 °C

» Process connection

R 1 1/2" screw-in unit;

Adjustment range

ca. 500 mm

» Electrical connection:

M12 plug-in connection

» Protection class: IP68

» Sensor materials:

Housing: Stainless steel 303;

Pipe: Stainless steel 304;

Corrugated tube, float:

Stainless steel 316 Ti;

Screw-in unit, weight: Brass;

Encapsulation of the holder

magnet: conductive plastic

» Approvals:

ATEX, IECEx

#### Options

» Battery-operated sensor with radio connection to measurement analysis VISY-Command RF

» Screw-in unit made of stainless steel

» Weight made of stainless steel