

# VISY-Stick Flex

Level measurement in tall tanks



## VISY-X system for tall tanks

The VISY-Stick Flex is a specially designed level sensor for tall tanks. Due to a special design, the sensor also can be bent once for transportation. So the VISY-Stick Flex can be packed compactly and shipped at low costs.

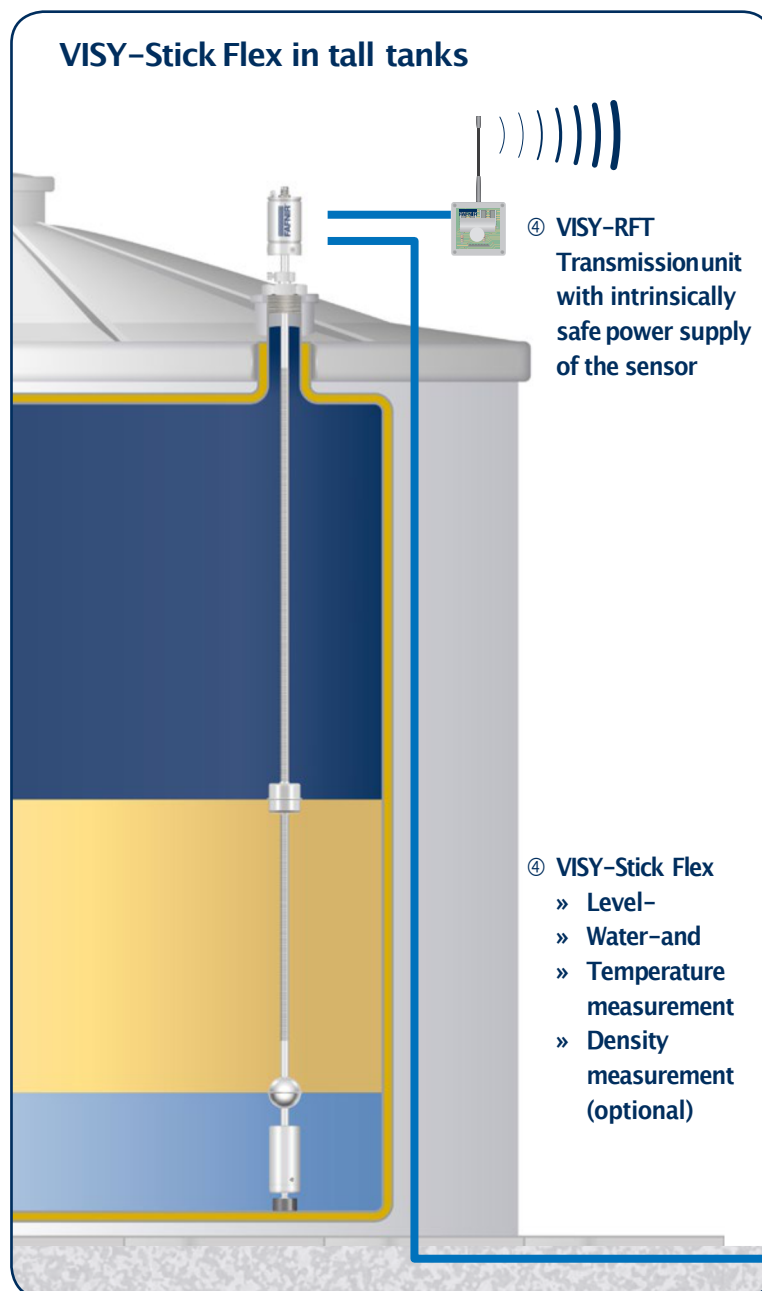
The VISY-Stick Flex operates according to the

magnetostrictive measuring principle. As result a high accuracy is achieved.

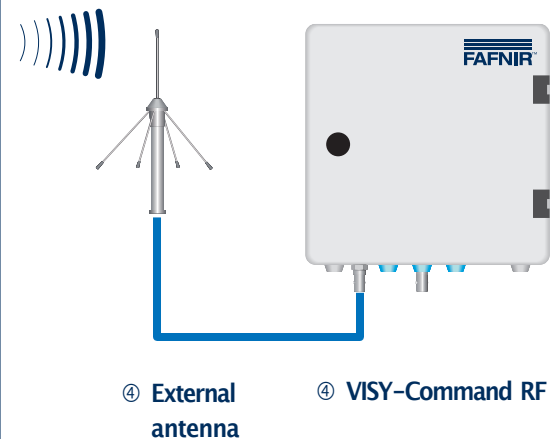
Another advantage is the easy installation. After installation the corrugated tube of the sensor is stretched by a weight and fixed by a magnet on the tank bottom. Thus, the corrugated hose is

## VISY-Stick Flex: The level measure

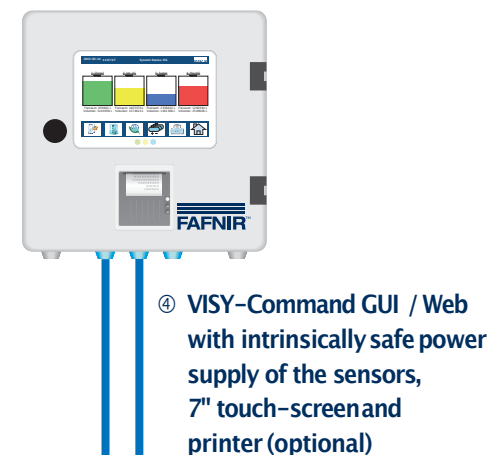
Data recording and m



### ... with wireless connectivity



### ... with cable connectivity



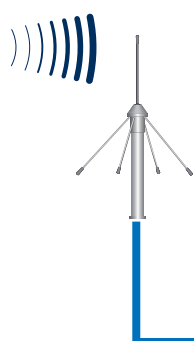
positioned vertically and both the product and the water float can freely move up and down. The magnet additionally prevents unwanted movements of the probe tube.

The VISY-Stick Flex level sensor can be operated wirelessly, too. The VISY-RFT transmitter (radio

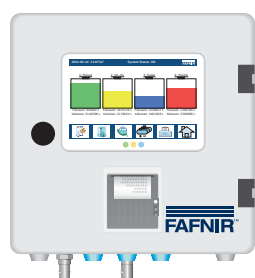
frequency transmitter) transmits the tank data recorded by the sensor wirelessly to the central unit VISY-Command RF (Radio Frequency). The central unit encloses the VISY-RFR receiver (radio frequency receiver) to which one or optionally two external antennas can be connected.

## Measurement system for bulk storage tanks

Monitoring of filling levels



④ External antenna



④ VISY-Command GUI / Web RF with 7" touch-screen and printer (optional)



SPS available?  
As TORRIX Flex  
also available with  
4 to 20 mA and  
HART® output.

### FAFNIR Technology Features

- ④ Flexible sensor tried and tested many times in tank farms
- ④ ONE sensor for product filling level, product temperature, water level and density (optional)
- ④ Highly accurate and reliable measurements
- ④ Proven magnetostrictive measurement method
- ④ Made of stainless steel for use with all commercially available fuels and aviation fuels
- ④ Compact packaging and easy transport thanks to the flexible corrugated tube
- ④ Simple to install and set up
- ④ Probe length to 22 m
- ④ For 1½" openings (with density module 2", with low-level water float 4")
- ④ Maintenance-free
- ④ Suitable for use in ex-zone 0 (ATEX, IECEx approval)
- ④ Wireless link to VISY-Command RF possible
- ④ Individual alarms via e-mail (VISY-Command GUI / VISY-View Touch)
- ④ Worldwide access to real-time data with VISY-Command Web / SECON-Client



④ VISY-View Touch / SECON Client, the display for mounting in the office or at places which are accessible to authorized personnel

# Technical Data

## VISY-Stick Flex

- ④ Probe length
  - » Maximum 22 m
- ④ Measuring accuracy
  - » Accuracy:  $\pm 1\text{mm}$
  - » Repeatability:  $\pm 0,5\text{ mm}$
  - » Resolution:  $0.001\text{mm}$
- ④ Temperature measurement
  - » Accuracy:  $\pm 0.5\text{ }^\circ\text{C}$  (at  $20\text{ }^\circ\text{C}$ )
  - » 5 x Pt1000 Temperature Sensors
- ④ Temperature range
  - » Medium temperature  $-40\text{ }^\circ\text{C}$  to  $+85\text{ }^\circ\text{C}$
- ④ Optional density measurement
  - » Relative accuracy:  $\pm 1\text{g/l}$
  - » Absolute accuracy:  $\pm 4\text{ g/l}$
- ④ Optional low-level water float
  - » Measurement of water height from 32 mm (only with 4" openings)
- ④ Process connection
  - » Screw-in unit for height adjustable installation  $R\ 1\frac{1}{2}$ , stainless steel 303
- ④ Electrical connection
  - » M12 plug connector
- ④ Protection class
  - » IP68
- ④ Sensor materials
  - » Housing made of stainless steel 303
  - » Tube made of stainless steel 316Ti
  - » Corrugated hose made of stainless steel 316L
- ④ Weight
  - » Stainless steel 303
- ④ Holding magnet
  - » Hard ferrite
  - » Encapsulation made of steel, nickel-plated
  - » Isolation made of conductive plastic (PTFE with graphite)
- ④ Approvals
  - » Ex zone 0 (ATEX, IECEx, NEPSI approval)

