

# VISY-Stick Flex

Level measurement in tall tanks



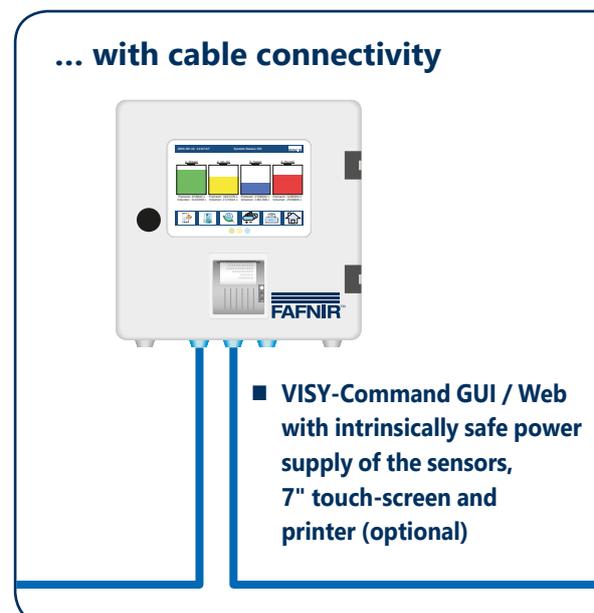
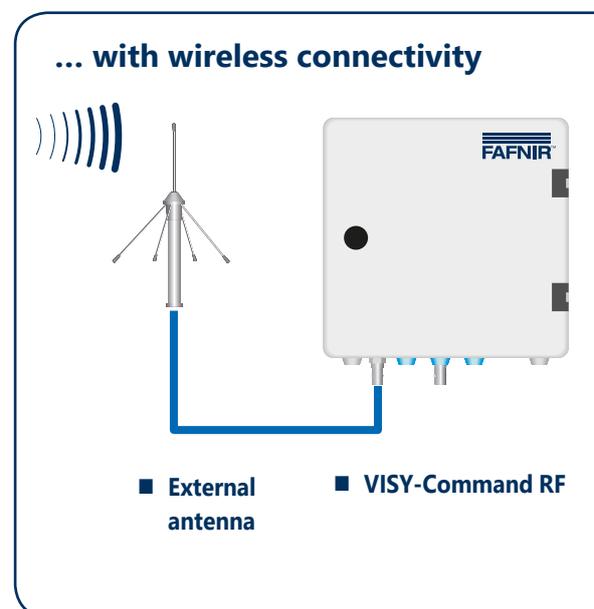
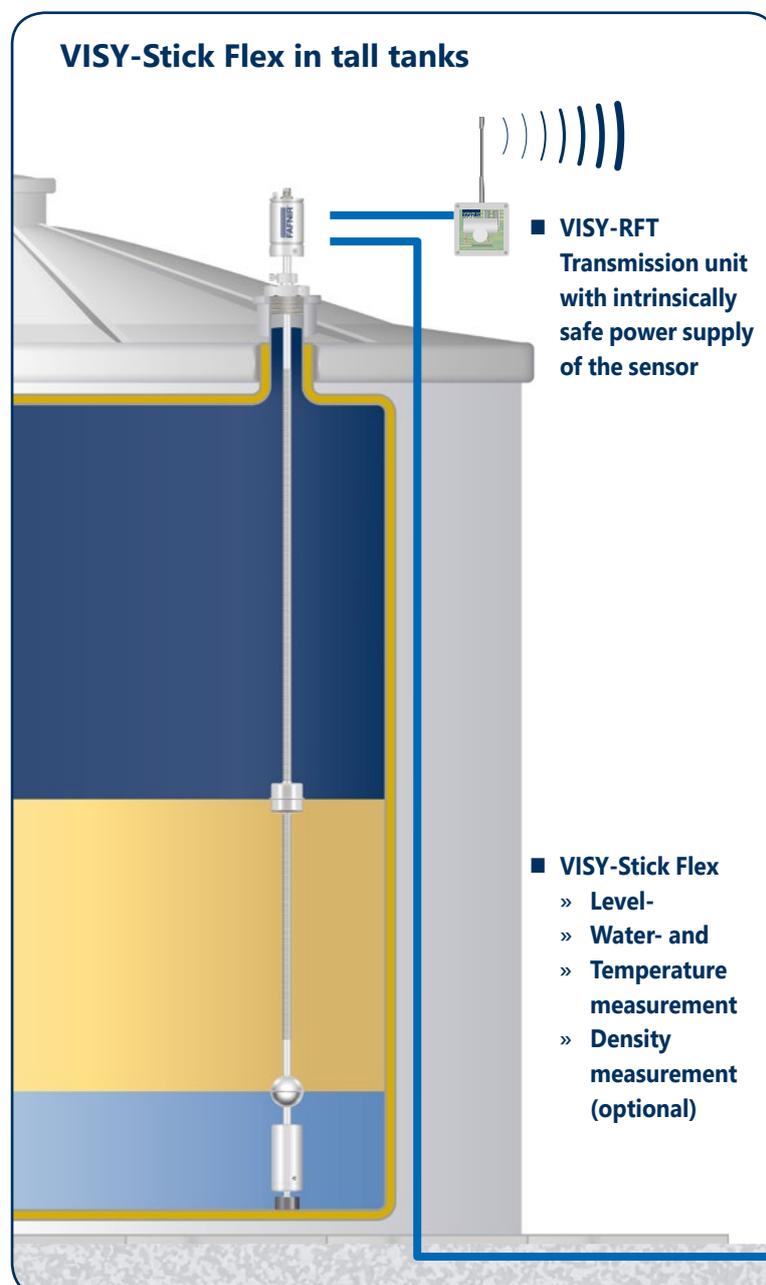
## VISY-X system for tall tanks

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



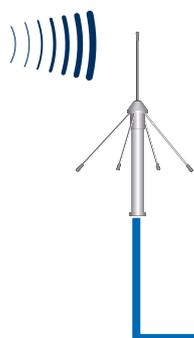
positioned vertically and both the product and the water float can freely move up and down. The magnet additionally prevents unwanted movements of the probe tube.

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



■ External antenna



■ 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

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

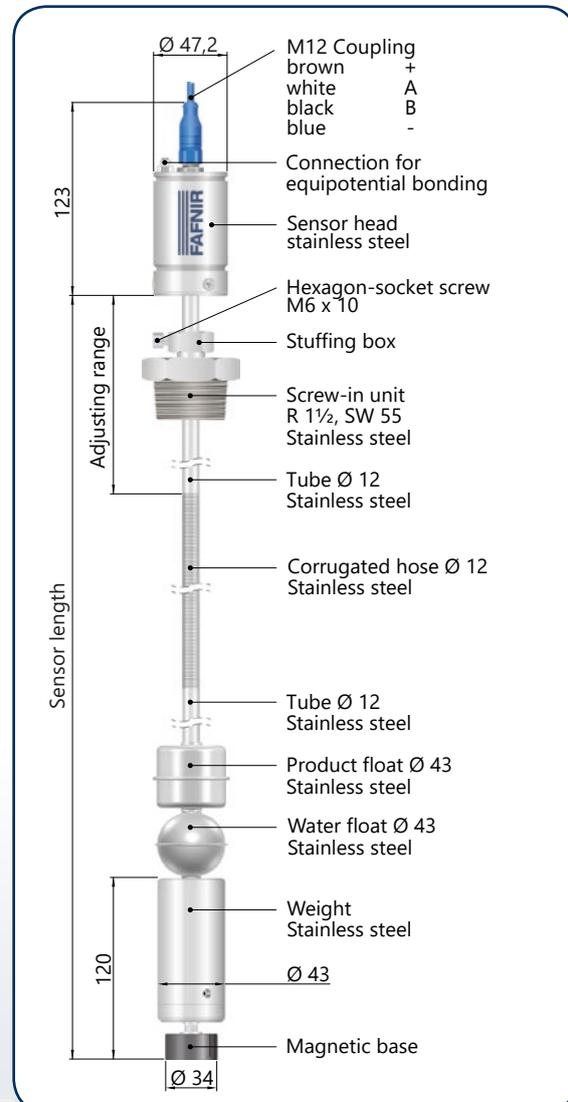


■ VISY-View Touch / SECON Client, the display for mounting in the office or at places which are accessible to authorized personnel

# Technical Data

## VISY-Stick Flex

- Probe length
  - » Maximum 22 m
- Measuring accuracy
  - » Accuracy:  $\pm 1$  mm
  - » Repeatability:  $\pm 0,5$  mm
  - » Resolution: 0.001 mm
- Temperature measurement
  - » Accuracy:  $\pm 0.5$  °C (at 20 °C)
  - » 5 x Pt1000 Temperature Sensors
- Temperature range
  - » Medium temperature  $-40$  °C to  $+85$  °C
- Optional density measurement
  - » Relative accuracy:  $\pm 1$  g/l
  - » Absolute accuracy:  $\pm 4$  g/l
- Optional low-level water float
  - » Measurement of water height from 32 mm (only with 4" openings)
- Process connection
  - » Screw-in unit for height adjustable installation R 1½, stainless steel 303
- Electrical connection
  - » M12 plug connector
- Protection class
  - » IP68
- Sensor materials
  - » Housing made of stainless steel 303
  - » Tube made of stainless steel 316Ti
  - » Corrugated hose made of stainless steel 316L
- Weight
  - » Stainless steel 303
- Holding magnet
  - » Hard ferrite
  - » Encapsulation made of steel, nickel-plated
  - » Isolation made of conductive plastic (PTFE with graphite)
- Approvals
  - » Ex zone 0 (ATEX, IECEx, NEPSI approval)



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