

## VISY-Stick LPG

### VISY-X Tank Content Measuring System for Liquefied Petroleum Gas Applications

The VISY-Stick LPG level sensor supplies information about the fuel level in LPG tanks. The magnetostrictive sensor with buna float and pressure-resistant stainless steel screw connection is specially designed for use in liquefied petroleum gas.



VISY-Stick LPG for direct connection inside the tank

#### Function

The VISY-Stick sensor operates in accordance with the magnetostrictive measuring principle. The sensor tube contains a wire made of magnetostrictive material. A magnet integrated in the float magnetises the wire

at the float position. The sensor electronics transmit current pulses through the wire, which generate a circular magnetic field. A torsional wave develops at the point where the two magnetic fields overlap and it

propagates towards the sensor head. In the sensor head, these mechanical waves are converted into an electrical signal. The float position and the temperature are calculated from the propagation time.

#### Features of FAFNIR technology

- Magnetostrictive sensor for use in liquefied petroleum gas (buna float, pressure-resistant stainless steel screw connection)
- Continuous monitoring of product level and product temperature
- Fully integrated into VISY architecture
- Two installation versions consists:
  - directly
  - with installation kit
- Suitable for all tanks sizes and shapes

### Technical Data VISY-Stick LPG

Standard Version:

» Product:

Accuracy:  $\pm 2$  mm;  
Repeatability:  $\pm 0.5$  mm;  
Resolution: 0.001 mm;  
Response threshold: 120 mm;  
Floater:  $\varnothing 43$  mm, 1½"

» Temperature:

Measuring range:  
- 40 °C to + 85 °C;  
Accuracy:  $\pm 1$  °C;  
Repeatability:  $\pm 0.5$  °C;  
Resolution: 0.001 °C

» Process connection:

Screw-in unit ½" NPT  
made of stainless steel  
continuously variable  
height adjustment

» Electrical connection:

M12 Plug connector

» Protection class: IP68

» Sensor material:

Stainless steel 304 (Tube),  
Stainless steel 303 (Head)

» Approvals:

ATEX, NEPSI, IECEx, UL-Brazil

» Certificate: CPA

### VISY-Stick LPG

Options:

» Battery-powered sensor  
with wireless link to the  
VISY-Command measurement  
analysis unit

» Installation kit for LPG

» Screw-in unit ½" NPT  
made of stainless steel

