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# APLISENS - SGE-25 LEVEL SENSOR

Hydrostatic

SGE250010.000
0..10mH2O, 4-20mA, 10m PU cable



- 1..500mH2O range
- 4-20mA
- ATEX option
- Marine certification (DNV) option

**PRODUCT DESCRIPTION**

The SGE-25 hydrostatic level probe measures liquid levels, based on a simple relationship between the height of the liquid column and the resulting hydrostatic pressure. The pressure measurement is carried out on the level of the separating diaphragm of the immersed probe and is related to atmospheric pressure through a capillary in the cable. The active sensing element is a piezoresistant silicon sensor separated from the medium by an isolating diaphragm. The electronic amplifier, which works in combination with the sensor, and is meant to standardize the signal, is additionally equipped with an overvoltage protection circuit, which protects the probe from damage caused by induced interference from atmospheric discharges or from associated heavy current engineering appliances.

If there is a possibility of turbulence in the tank (for example, because of the mixer operating mixers or a turbulent inflow), the probe should be installed inside a screening tube (e.g. made of PVC). If the probe is to be lowered deeper than 100m, the cable should be hanged at steel lifting rope. Cleaning the probe diaphragm by mechanical means is strictly prohibited.

Options include Exia, DNV approval, cable options, output options and Pt100 sensor.

Applications include tanks, deep wells, waste water, oil/fuel etc

# TECHNICAL DATA

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|---|---|
| **Pressure range min** | 0 mH2O |
| **Pressure range max** | 10 mH2O |
| **Cable length** | 10 m |
| **Signal type** | 4-20 mA |
| **Material** | Stainless steel |
| **Material cable** | PUR |
| **Material of body** | Stainless steel 316L |
| **Material of wetted parts** | Hastelloy C, Stainless Steel SIS2350 (316L) |
| **Supply voltage dc min** | 8 V DC |
| **Supply voltage dc max** | 36 V DC |
| **IP class** | IP68 |

| | |
|---|---|
| **Deviation max** | 0,2 % |
| **Temperature of media from** | -25 °C |
| **Temperature of media to** | 40 °C |
| **Manufacturer part no.** | SGE25/0-10mH2O/4-20mA/10m PUR |
| **Measurement technology** | Pressure |
| **Mounting** | Submersible |

| | |
|---|---|
| **Diameter** | 25 mm |
| **Electrical connection** | Flying Leads |