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APLISENS - SGE-25 LEVEL SENSOR

Hydrostatic

SGE250001.001
0..1mH2O, 4-20mA, 5m 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

Pressure range min	0 mH2O
Pressure range max	1 mH2O
Cable length	5 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	0,6 %
Temperature of media from	-25 °C
Temperature of media to	40 °C
Manufacturer part no.	SGE25/0-1mH2O/4-20mA/5m PUR
Measurement technology	Pressure
Mounting	Submersible

Diameter	25 mm
Electrical connection	Flying Leads