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# APLISENS - SGE-25 SMART LEVEL SENSOR

Hydrostatic

SGE25S0004.000
0..4mH2O, 4-20mA/Hart, 10m PU cable



- 1..100mH2O
- 4-20mA & HART protocol
- ATEX option
- Marine certification (DNV) option

### PRODUCT DESCRIPTION

The SGE-25 hydrostatic level probe measures liquid levels in tanks, deep wells or piezometers. Its specialised design means it can measure water levels in very narrow conditions.

Its operation is based on a simple relationship between the height of the liquid column and the resulting hydrostatic pressure. Applications include pumping stations, fermentation chambers, settling tanks, borehole levels and ponds.

When the probe is lowered to the reference level it can either hang freely or lie on the bottom. If there is a possibility of turbulence in the tank (for example mixer operation or a turbulent inflow) then the probe should be installed inside a screening tube (e.g. made of PVC). Cleaning the probe diaphragm by mechanical means is strictly prohibited. The SGE-25 uses HART protocol and can be configured using the following metrological parameters:

- Units of pressure
- Start and end-points of the set range
- Damping time constant
- Invert the output signal (.i.e. 20-4mA)

Through the data interchange with the probe you can also:

- Identify the probe
- Read the hydrostatic pressure value, output current and percentage of measuring range

Options include Exia, thread on cable entry, titanium wetted parts, DNV approval, cable options and higher temperature rating.

# TECHNICAL DATA

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|---|---|
| **Pressure range min** | 0 mH2O |
| **Pressure range max** | 4 mH2O |
| **Cable length** | 10 m |
| **Signal type** | 4-20 mA / Hart |
| **Material cable** | PUR |
| **Material of body** | Stainless steel 316L |
| **Material of wetted parts** | Hastelloy C, Stainless Steel SIS2350 (316L) |
| **Supply voltage dc min** | 7.5 V DC |

| | |
|---|---|
| **Supply voltage dc max** | 55 V DC |
| **IP class** | IP68 |
| **Deviation max** | 0,1 % |
| **Temperature of media from** | -30 °C |
| **Temperature of media to** | 40 °C |
| **Manufacturer part no.** | SGE-25.Smart/0-4mH2O/PU/L=10 |
| **Measurement technology** | Pressure |
| **Mounting** | Submersible |

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




