

# Hydrostatic level transmitter NIVAPRESS SGE-25

- Measuring range: 1...500m (H<sub>2</sub>O)
- Sensor and housing: stainless steel (316L)
- Diaphragm: Hastelloy
- Protection against overloads
- Option: ATEX or DNV certification



## APPLICATIONS

Hydrostatic level transmitter NIVAPRESS SGE-25 is convenient for measuring clear liquids, stored in opened tanks and wells. It is recommended for monitoring and control of submersible pumps.

## DESCRIPTION

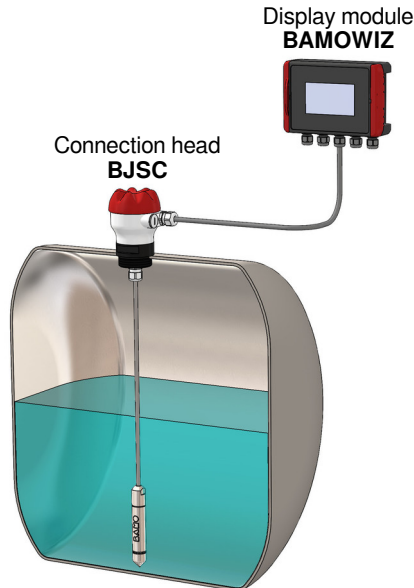
The NIVAPRESS SGE25 probe is immersed in the liquid. The pressure on the sensor increases proportionally with the depth of immersion.

The pressure is measured at the immersion depth of diaphragm, connected to atmosphere through a capillary inside the cable. The active sensing element is a piezoresistive type isolated by a very strong hastelloy diaphragm. An electronic amplifier operating in connection with the sensor, converts the measurement into a 4-20 mA or 0-10 V analog signal.

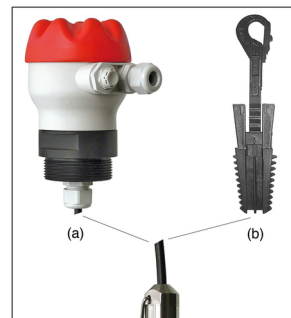
The anti-surge circuit protects the instrument from damages caused by atmospheric disturbances or high power devices.

### Mounting accessories:

Installation of the NIVAPRESS SGE-25 probe is simplified by the use of an attachment system, such as the NIVAPRESS SGE-25.



Installation diagram



The probe can hang freely at the end of the cable or lie down at the bottom of the tank.

### Installation Precautions:

The junction box BJSC with pressure compensation, allows to fix the sensor and ensures the balancing of atmospheric pressure through an integrated vent on the front of the housing. It significantly reduces the risk of entry of dust and moisture. It is also recommended to extend the life of the probe cable.

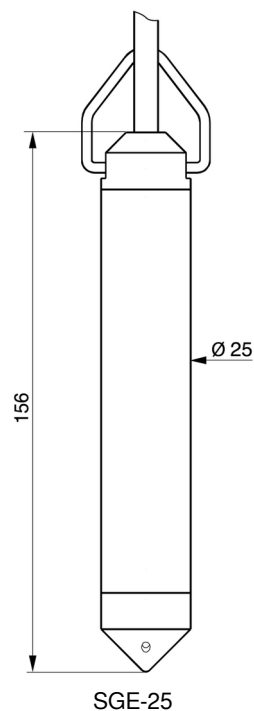
A cable extension could be done with a standard cable. For connecting longer cables, we recommend using the additional wall-mounted surge protection box, BPS 102.

## TECHNICAL FEATURES

Measuring ranges	1m WC	4m WC	0...10/500m WC
Acceptable override	40 times F.S.	25 times F.S.	10 times F.S. (700 m WC max.)
Accuracy	0.6%	0.3%	0.2%
Temperature error	0.3%/10°C (average) 0.4%/10°C (max.)		0.2%/10°C (average) 0.3%/10°C (max.)
Long time stability	0.1% or 1cm WC/year		
Hysteresis	0.05%		
Temperature compensation	0...+40°C		
Operating temperature	-25...+40°C		
Output signal/ supply	Analog 4...20mA (2-wire); Supply: 8...36V (9...28V DC for EEx version)		
Protection	IP68		
Body	AISI 316L		
Diaphragm	Hastelloy C276		
Cable	PUR (polyurethane)		
OPTIONS (On request)			
Version ATEX	Only with 4...20mA output		
Version 0-10 V	0...10V 3-wire; Supply: 15...30V DC; Not applicable in EEx version – Without overvoltage protection		
Marine Certification (MR)	DNV GL		
Temperature compensation	-10 ... +70 °C		
Cable	PTFE		

CE Marks: EN 60079-02: 2006 – EN 50303: 2004 – EN 60079-26: 2007 – EN 60079-11: 2007

## DIMENSIONS



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Hydrostatic level transmitter  
**NIVAPRESS SGE-25**

22-01-2025

D-590.03-EN-AF

**NIV**

**590-03/2**

## CODE NUMBERS AND REFERENCES

- Standard models available from stock:

Code	Reference	Description
590 711	SGE-25-K-1-003	NIVAPRESS SGE-25, 4-20 mA output, range 0 ... 1 m WC, 3m long cable
590 721	SGE-25-K-2-004	NIVAPRESS SGE-25, 4-20 mA output, range 0 ... 2 m WC, 4m long cable
590 731	SGE-25-K-3-007	NIVAPRESS SGE-25, 4-20 mA output, range 0 ... 5 m WC, 7m long cable
590 741	SGE-25-K-4-012	NIVAPRESS SGE-25, 4-20 mA output, range 0 ... 10 m WC, 12 m long cable

### Accessories

590 799	BJSC	Holder (see data-sheet 590-04)
590 798	Bracket	PVC angle bracket
520 620	CE200 2"G PP	PP Counter-nut, 2" G
590 831	BPS 102	Extension box, surge protection
520 919	Cable clip	Suspension clip for 2 cables

- Customized models:

#### Model

##### Outputs

- K** 4-20 mA (2-wire)
- H** 0-10 V (3-wire)
- X** 4-20 mA (ATEX)

##### Measuring range

- 1** 0... 1 m WC
- 2** 0... 2 m WC
- 3** 0... 5 m WC
- 4** 0... 10 m WC
- 5** 0... 20 m WC
- 6** 0... 40 m WC
- 7** 0... 60 m WC
- 8** 0... 100 m WC
- 9** Other scale (500 m Water Column max.)

##### Cable length

- 00 1** 1 m
- 01 2** 12 m
- 1 0 0** 100 m

(Any length from 1 to 500 m, may be supplied, on request)

SGE-25 | K | 4 | 01 2



Pression - Température

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D-590.03-EN-AF

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**590-03/3**