

Hydrostatic level transmitter NIVAPRESS SGE-25

- Measuring ranges up to 500 m H₂O
- Probe: AISI 316 L
- Diaphragm: Hastelloy
- Protection against overloads
- 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.

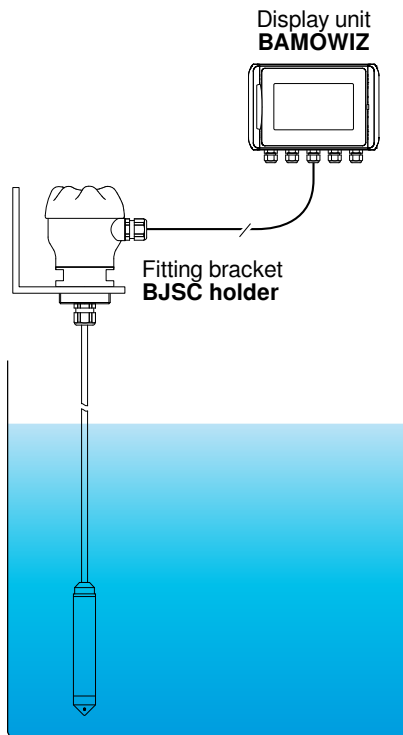
The anti-surge circuit protects the instrument from damages caused by atmospheric disturbances or high power devices.

Precautions for installation:

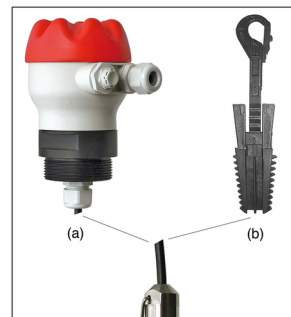
The installation of the NIVAPRESS SGE-25 is simplified by the use of a fastening system, such as a suspension clip (a) or/and a BJSC holder (b). The probe can hang freely at the end of the cable or lie down at the bottom of the tank.

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 large cable distances it is necessary to use the box junction BPS102 (wall mount) with surge protection device.



Standard installation



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Hydrostatic level transmitter
NIVAPRESS SGE-25

08-04-2019

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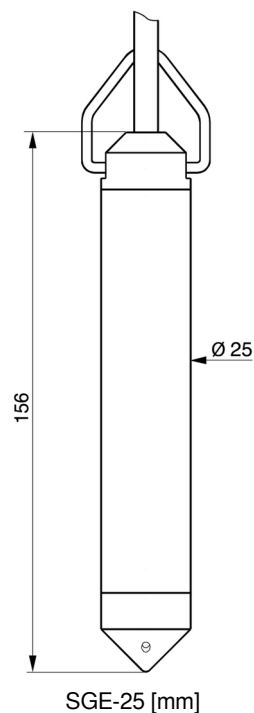
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TECHNICAL FEATURES

Measuring ranges	1 m WC	4 m WC	0...10 / 500 m 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 1 cm WC/ year		
Hysteresis	0.05 %		
Temperature compensation	0... +40 °C		
Operating temperature	-25 ... +40 °C		
Output signal/ supply	Analogue 4-20 mA 2-wire; Supply: 8 to 36 V DC (9 to 28 V DC for EEx version)		
Protection	IP68		
Body	AISI 316 L		
Diaphragm	Hastelloy C276		
Cable	PUR (polyurethane)		
OPTIONS			
Version i.s. (4-20 mA)	II 1G EEx ia IIC T4 / T5 / T6		
Version 0-10 V	0-10 V 3-wire; Supply: 15 to 30 V DC; No anti-surge protection; Not available in EEx version		
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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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... 25 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

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