

HYDROSTATIC LEVEL TRANSMITTER NIVAPRESS SGE-25



- Scale range available from 1 to 500 m WC
- Materials
 - Sensor and probe: Stainless steel 316 L
 - Diaphragm: Hastelloy C276
 - Cable: PUR (polyurethane)
- Internal surge protection
- Version ATEX available:
 - ATEX Ex II 1G
 - EEx ia IIC T4 / T5 / T6
 - I M1 EEx ia I
 - KDB 09ATEX088
- Maritime certificate, DNV

APPLICATIONS

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

PRINCIPLE

The probe measures the hydrostatic pressure due to the liquid column (difference from total pressure above the sensor and the atmospheric pressure through a capillary built in the cable). The sensor is a piezo-resistive detector, protected with a diaphragm in Hastelloy. The electronic card delivers an analogical signal (4-20 mA or 0-10 V) directly proportional to the height of liquid. The anti-surge device protects the instrument from damages caused by atmospheric disturbance or high power apparatuses.

WARNING

The system fitting is easier and safer with a BP101 box junction, reducing effects of dust and humidity. The probe can freely hangs down its cable or lay down on the tank bottom. A cable extension could be done with a standard cable. For long distance cable it is necessary to use the box junction BPS102 (wall mounting) with surge protection device. For an easy maintenance operation, it is better to use a strengthened clip.

BAMO MESURES

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HYDROSTATIC LEVEL
TRANSMITTER
NIVAPRESS SGE-25

18-04-2011

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TECHNICAL FEATURES

Measuring range	1 m WC	4 m WC	0...10 / ...500 m WC
Over pressure limit	40 x range	25 x range	10 x range or 700 m as a maximum
Accuracy	0,6 %	0,3 %	0,2 %
Temperature error	0,3 % / 10 °C (average) 0,4 % / 10 °C (as a maximum)		0.2 % / 10 °C (average) 0.3 % / 10 °C (as a maximum)
Long term stability	0.1 % or 1 cm H ₂ O / year		
Hysteresis	0,05 %		
Temperature compensation	0...+25 °C		
Service temperature	-25...+50 °C (range > 20 m CE) -25...+75 °C (range ≤ 20 m CE) -25...+50 °C (ATEX Version EEx)		
Analogical output	4-20 mA (2 wire technique) / power supply input 10.5...36 V dc (28 V as a maximum for ATEX version EEx)		
Protection	IP 68		
Materials	Sensor and probe: stainless steel 316 L Diaphragm: Hastelloy C276 Cable: PUR (polyurethane)		
OPTIONS			
Version S.I. (4-20 mA)	II 1G EEx ia IIC T4 / T5/ T6		
Version 0-10 V	0-10 V (3 wire technique) / power supply input 15...30 V dc (Not for EEx version)–Without surge protection		
Version Maritime (MR)	DNV Marine Certificate		
Temperature compensation	-10...+70 °C		
Cable	PTFE		

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

SPECIFICATIONS

NIVAPRESS SGE-25

Cable Length /meter

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

Scale range ...	CODE
0 ... 1 m WC	1
0 ... 2 m WC	2
0 ... 5 m WC	3
0 ... 10 m WC	4
0 ... 25 m WC	5
0 ... 40 m WC	6
0 ... 60 m WC	7
0 ... 100 m WC	8

Example:

0 0 1 = cable 1 m long
0 1 2 = cable 12 m long
1 0 0 = cable 100 m long

All lengths are available
from 1 to 500 m

CODE NUMBERS AND REFERENCES

Standard instruments, available from stock

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

Accessories

Code	Reference	Designation
590 811	BP 101	Junction box
590 831	BPS 102	Extension box, wall mounting, surge protection
520 919	Cable clip	Strengthened clip for 2 cables

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