

Bubbling system

Integrated level sensing / integrated system monitoring

EPS-NE



Application

This module is utilised when extreme reliability is demanded; the EPS-NE bubbling system injects air bubbles into the medium it senses simultaneously and continuously the level of extremely dirty or chemically aggressive water and waste water.

Description

The pneumatic level sensor EPS converts air pressure generated by the hydrostatic backpressure of the water level into a proportional, standard electrical signal. It is possible to correct the zero point and scaling using a single button.

False settings and system errors are indicated via LEDs.

The compressor is operated alternately in a duty cycle of approx. 20 %.

The bubble tube can be utilised in potentially explosive atmospheres. A separate bubble tube and measurement lead arrangement is used to prevent condensation forming.

EPS-NE-S: a test program automatically tests the performance of the compressor daily.

A fault alarm is issued if performance characteristics deviate.

Principal functions:

- Robust and reliable
- Integrated system monitoring (optional)
- Straightforward diagnostic functions facilitate calibration without additional measuring instruments
- Advanced diagnostic functions (eg fault memory) over terminal software
- Output signal 0/4... 20 mA, 0/2... 10V
- One-button operation for scaling and zero point
- Quiet running compressor
- Compact design

Technical data

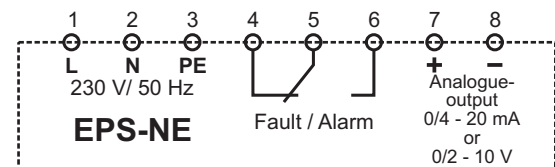
Operating voltage:	230 V / 50 Hz
Power consumption:	approx. 7 VA
Measuring range :	0... 2,5 / 4,0 mWS / 10,0 mWS
Overload range:	up to 3 x measuring range
Analogue output:	0 / 4... 20 mA oder 0 / 2... 10V (burden max. 400 Ω / min. 10kΩ)
Housing:	Steel galvanized / powder-coated
Compressor:	Polycarbonat
Degree of protection:	IP 00
Hose connection:	Connector for pneumatic hose outside diameter 8mm
Diagnostic interface:	RS 232
EMC Emission:	EN 50 081-2
EMC Immunity:	EN 50 082-2

Variants

	Alternating compressor operations	Integrated level sensing	System monitoring compressor performance	2-tube system
EPS-NE-XX	✓	✓		✓
EPS-NE-S-XX	✓	✓	✓	✓

Optional:
XX = 25 = 2,5 mWS or **XX** = 40 = 4,0 mWS or
XX = 10 = 10,0 mWS (with separate Compressor)
 When ordering please select.

Electrical connection



Dimensions



Status 04/2012 - Subject to technical modifications



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