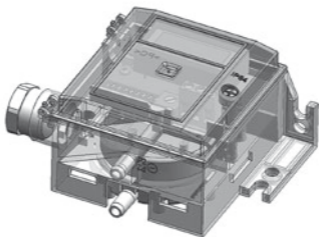


Relative, vacuum and differential pressure transmitter
Operating instructions

Huba Control



English



Before operating refer to the instruction manual!

Any person entrusted with the set-up or operation of the device, must have read and understood this operation manual, in particular all safety notes. The guarantee is invalid in respect of damage resulting from a failure to follow the instructions, incorrect handling or inappropriate use. We accept no responsibility for consequential damages resulting from any of the above.

Safety information



General information

In order to ensure safe operation, the device may only be operated in accordance to the specifications stated in this operation manual. Furthermore, all legal and safety regulations concerning this specific application should be observed. This also applies to the use of accessories.

Correct use to the intended purpose

These devices are designed for indication and monitoring of process variables. All other forms of usage do not comply with the intended purpose. These sensors may not be used solely as means for prevention of dangerous machine and system conditions. Machines and systems must be constructed in such a way, that faulty states cannot lead to a dangerous situation for the operating staff (e.g. due to independent limit switches, mechanical interlocking devices, etc.).

Qualified staff

The devices may only be installed, connected, set-up and operated by qualified staff and in compliance with the technical specifications. Qualified staff is defined as persons, who are familiar with set-up, mounting, start-up and operation of this device and who possess a recognized degree or certificate of appropriate professional training.

Remaining hazards

These sensors employ state-of-the-art technology and are safe to operate. However, if they are installed and operated by unqualified staff, an element of risk remains.



In this manual the remaining risks are marked by the following symbol:

This symbol is posted where there is a risk of serious injury or death or the damage of material and property, if the warning is ignored

Installation and set-up instructions

Even though the device is excellently protected against electro-magnetic interference, installation and cabling must be carried out correctly to ensure interference immunity.

1. Use shielded cables for the signal and control lines with the connecting lead of the screen being kept as short as possible. The connection point of the shielding depends on the existing connection conditions.
2. Never route signal and control cables together with the trunk line or feeder cables of motors, cylinder coils, rectifiers etc. The cables must be routed in conductive and grounded cable conduits. This applies especially to long-distance cables, or environments in which the cables are exposed to strong radio waves from broad casting stations.
3. Signal lines should be installed in mounting cabinets and as far away as possible from contactors, control relays, transformers and other sources of interference.



Mounting

- Prior to mounting or removing the sensor it must be verified that the system is depressurized.
- Do not mount sensors in locations subject to high pressure pulses.
- Significant thermal changes in the sensor environment can lead to a zero shift. As a result, the measuring value displayed in a depressurized state will read zero. This kind of drift can be corrected by zero point reset.

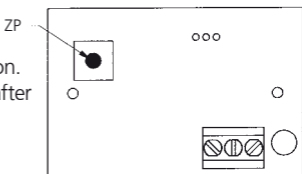
Installation arrangement



Recommended installation arrangement:
vertical, with pressure connections facing downward,
drain of possible condensed water (factory calibration).

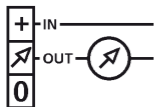
Notice: Mount the transmitter with minimum 10 mm distance to magnetic material. If this is not possible there is a failure of up to minus 1 Pa for transmitters mounted on sheet steel. bis minus 1 Pa entstehen.

ZP = Push Zero point reset.
The installation position is variable
by using the zero point reset button.
Pressure variations are resettable after
installation.

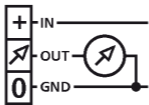


Ensure the power supply is not interrupted when storing customer settings (NB – reset,).

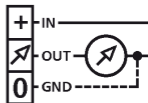
Connection diagrams



2 wire



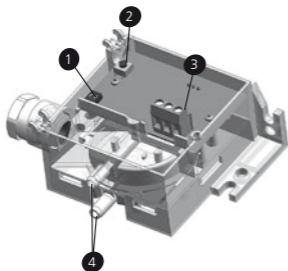
3 wire





Universal
2 and 3 wire

Version with measurement configuration only

(Adjustability 1)



1. DIP-Switch (dual)
2. Zero point reset
3. Connecting terminal
4. Pressure connector
P1 and P2

			$\frac{1}{0}$
Pressure range ¹⁾			
Range00	0	0	
Range01	0	1	
Range10	1	0	
customer adjustment ²⁾	1	1	


¹⁾ Pressure range

²⁾ Customized factory adjustment

³⁾ DIP-Switch position according to factory adjustment (see inside cover)

Adjustable pressure ranges

Factory Settings

		1	2
			
Pressure range¹⁾	Range00	0	0
	Range01	0	1
	Range10	1	0

¹⁾ Pressure ranges

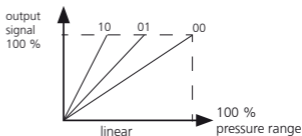
²⁾ DIP-Switch position according to factory adjustment (see inside cover)

DIP Switch position



switchable pressure ranges

Range 00 (in mbar)	0.5	1	3	5	10	16	25	50
Range 01 (in mbar)	0.3	0.5	1	3	5	10	16	25
Range 10 (in mbar)	0.3	0.3	0.5	1	3	5	10	16





The factory setting information (pressure range and article no.) is located on the specification label. Because of customer configuration the settings can differ from this information and before the device is configured please refer to the operating manual.

Electromagnetic compatibility

CE conformity according EN 61326-2-3.

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