Differential Pressure Transmitter DPT

Pressure range:

Output: Media: 0,5kPa, ±1, ±2, ±5, ±10, ±20, ±30kPa and 100kPa (±5 mbar, ±10, ±20, ±50, ±100, ±200, ±300 mbar and ±1 bar) 4...20 mA and 0...10 V Air, non aggressive gases



□ Material: Wetted material sensor are parts and housing from plastics

- Silicon membrane
- □ Operating temperature 0 °C bis +50 °C
- □ Accuracy: ±1,0% F.S.

Application / Possibles uses

□ Air conditioning and Heating

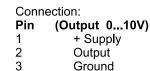
- □ Civil engineering / Process control
- □ Pneumatics

Description / Options

The differential pressure transmitter use in industrial application, environmental measurement and facility management. To measure differential pressure in gases. The pressure sensors are maintenance free.

Technical information:Output: $0...10 \ V \text{ or } 4$ Supply voltage: $12...32 \ V D$ Linearity: $\pm 1,0 \ \% F.S.$ Total error : $\pm 2,5 \ \% F.S.$ Electrical connector:C-clamp in tPressure connector:hose conneOperating temperature: $0...+50 \ \% C$ Environment temperature: $0...+50 \ \% C$ Protection class:IP 65 acc. to

0...10 V or 4...20 mA 12...32 V DC ±1,0 % F.S. ±2,5 % F.S. C-clamp in the housing hose connector 3,5 mm or 5.5 mm 0...+50 °C 0...+50 °C IP65 acc. to DIN EN 60 529



(Output 4...20mA) 1 + Supply 2 ground and resistor 3 not used

65 mm - 20 mm - 20 mm - 20 mm - 15 mm - 15



Service

The pressure sensors can be operated free of maintenance.

Note

We compiled this operating instructions carefully. Nevertheless, it was not possible to take all possibilities of application into account. If this data sheet should lack the solution of your special task, please don't hesitate to contact us.

Safety information

During installation, putting into service and operation of the pressure sensors, it is necessary to observe the relevant safety regulations that are in force in the country of the user (as for example, DIN VDE 0100 part 410).

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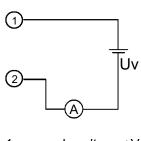




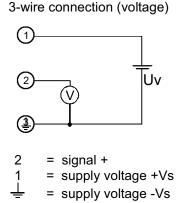


Assignment of elbow-type plug:

2-wire connection (4-20mA)

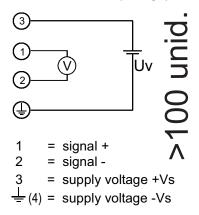


1 = supply voltage +Vs 2 = GND / signal



signal -

4-wire connection (voltage)



General installation instructions:

To mount the connection cable (2-, 3-, or 4-wire depending on type of device) the angle plug screw has to be loosened and the coupling insert has to be removed by means of a screw driver at the position indicated (arrow). Pull out connection cable through PG glanding and connect to the loose coupling insert as described in the wiring diagram. Replace loose coupling insert onto the pins at the transmitter housing and turn cover cap with PG glanding in the direction desired till it snaps on (4 different starting positions at 90° intervals). Re-tighten the screw at the angle plug

Pressure Connection:

Measuring transducer for absolute pressure:

Absolute pressure for over pressure measurements over absolute zero (Reference Vacuum).

The output signal corresponds to the absolute pressure.

pressure connection: port "A" (port "B" is not used)

Measuring transducer for relative pressure:

- For measurements of over- or under pressure:

The output signal corresponds to the pressure difference between the connected pressure and the ambient pressure.

pressure connection for over pressure measurement: port "B" under pressure measurement: port "A"

- Difference pressure measuring:

The output signal corresponds to the pressure difference between the both pressure ports.

pressure connection	higher pressure:	port "B"
	lower pressure:	port "A"

Safety instructions:

This device has been designed and tested in accordance with the safety regulations for electronic devices. However, its trouble-free operation and reliability cannot be guaranteed unless the standard safety measures and special safety advises given in this manual will be adhered to when using the device.

- 1. Trouble-free operation and reliability of the device can only be guaranteed if the device is not subjected to any other climatic conditions than those stated under "Specification". If the device is transported from a cold to a warm environment condensation may cause in a failure of the function. In such a case make sure the device temperature has adjusted to the ambient temperature before trying a new start-up.
- 2. General instructions and safety regulations for electric, light and heavy current plants, including domestic safety regulations (e.g. VDE), have to be observed.
- If device is to be connected to other devices (e.g. via PC) the circuitry has to be designed most carefully. Internal
 connection in third party devices (e.g. connection GND and earth) may result in not-permissible voltages impairing or
 destroying the device or another device connected.
- 4. If there is a risk whatsoever involved in running it, the device has to be switched off immediately and to be marked accordingly to avoid re-starting.

