General information:

The Oventrop differential pressure transmitter “OV-Connect” permanently controls the differential pressure of Oventrop products with “classic” measuring technique in heating, cooling and potable water systems which are operated with water or water and glycol mixtures. The differential pressure of the valve is measured via the measuring needles and the copper pipes at the pressure test points.
During working conditions, the appliance provides an output signal (0 – 10 V) proportional to the measured differential pressure. This signal can be processed via a priority electronic control and monitoring unit of a centralised building control system or of an individual appliance (e.g. pressure indicator).

Item no.: 1069180

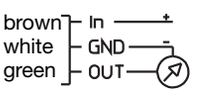
Application:

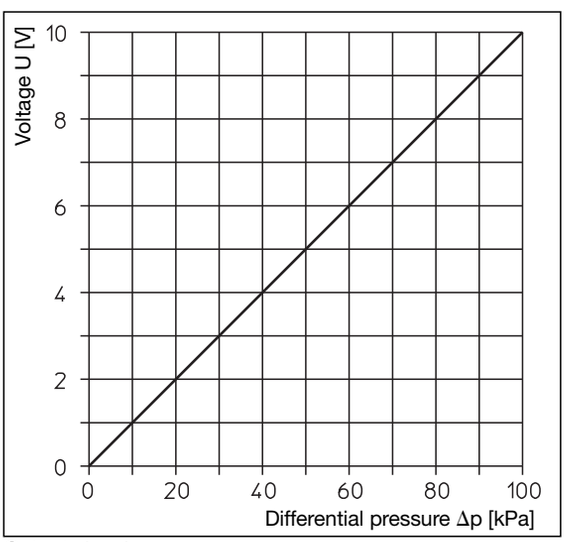
Installation in the supply or the return pipe.
Central heating and cooling systems as well as potable water installations (circulation pipes) up to PN 25.
For cooling systems: Please provide for frost protection and diffusion tight insulation!

Technical data:

Measuring range:	0 – 1 bar (100 kPa)
Max. differential pressure:	2 bar
Max. operating temperature t_S:	80 °C
Max. operating pressure p_S:	25 bar
Output signal:	0 – 10 V
Accuracy:	± 0.5 % FS
Supply voltage:	18 – 33 VDC 24 VAC ± 15 %
Protection:	IP 65

Brown: Supply voltage
White: Neutral conductor
Green: Output signal 0-10 V





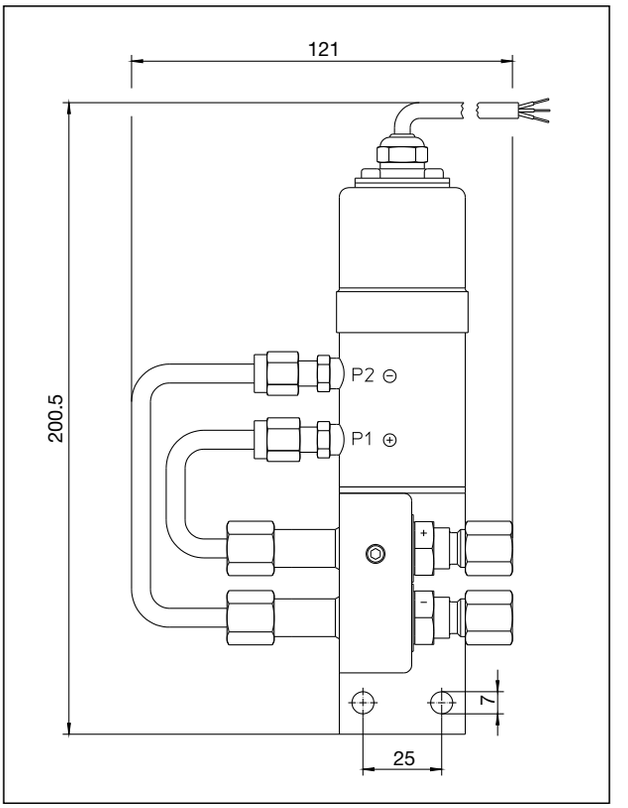
Output signal

The differential pressure transmitter is supplied complete with the connection set consisting of:
2 copper pipes 1 m (6 x 1 mm copper pipe), 2 measuring needles

Advantages:

- compact construction
- permanent control of differential pressure
- good optical display of the system conditions
- automatic overload protection
- easy to use

“OV-Connect” Differential pressure transmitter



Dimensions

Installation and assembly:

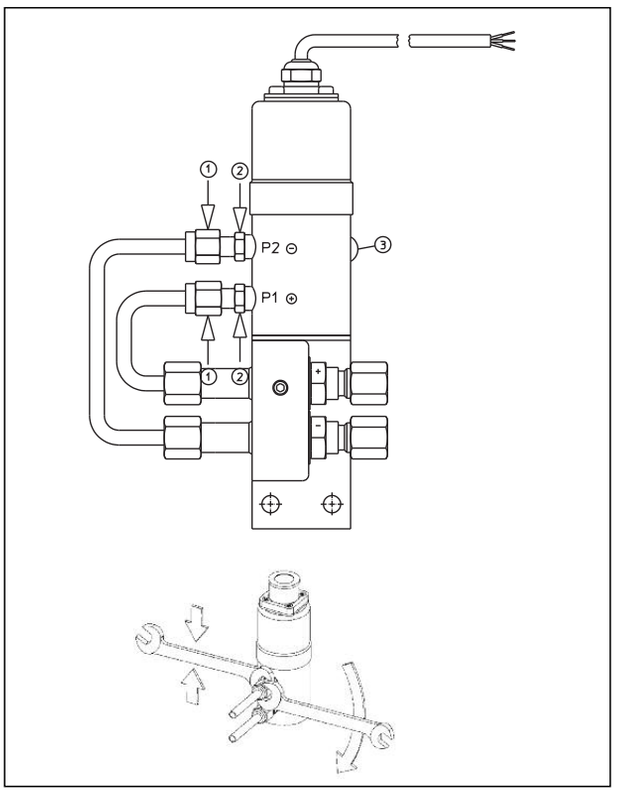
The differential pressure transmitter can be installed in any position (horizontal, oblique or vertical, in ascending and descending sections).
The supply cable must be protected against humidity (such as dripping condensate water) and excessive warming up. The electrical connection must be carried out by a qualified tradesman in accordance with the local regulations.
The red connection (+/P1) must be connected to the inlet pressure.
The blue connection (-/P2) must be connected to the outlet pressure.

Installation:

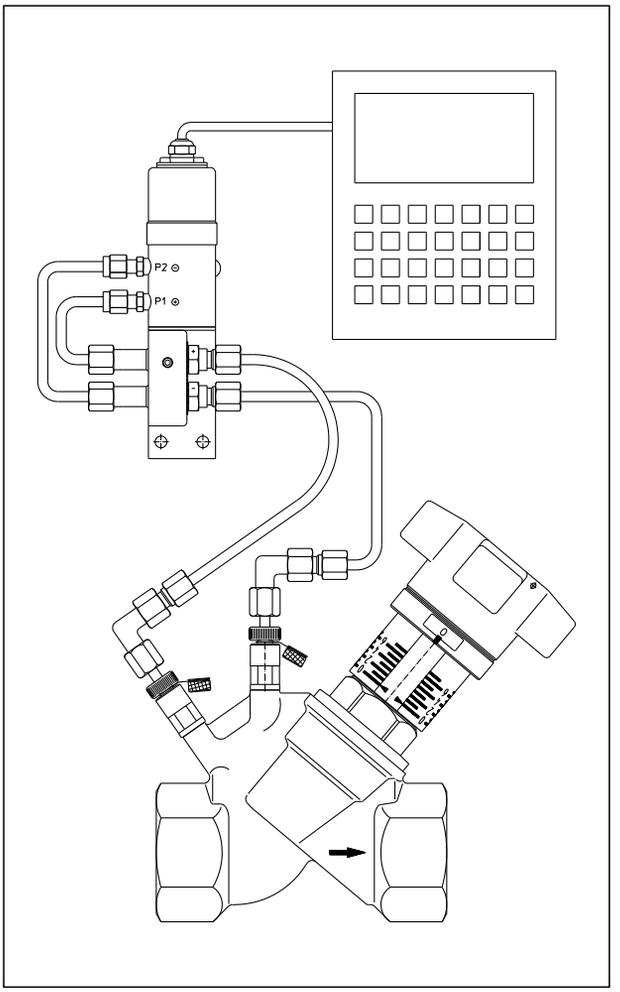
The Oventrop differential pressure transmitter can be installed in either the supply or the return pipe. It is to be observed that the pressure pipes of the transmitter (+/red, -/blue) are connected correctly. Before installing the transmitter into the pipework, the latter has to be flushed thoroughly. The installation of an Oventrop “Y” type strainer is recommended. To avoid blockage by dirt particles, the pressure pipes should be connected to the Oventrop valves with “classic” measuring technique from above or horizontally but not from underneath.
The couplings are to be installed tension free with the help of a suitable spanner.

Initial operation:

Before putting the system into operation, it must be filled and bled with due consideration of the permissible operating pressures.
An automatic overload protection prevents damage to the pressure transmitter by excessive differential pressures at any time (for instance during initial operation or repair).
To bleed the differential pressure transmitter, the couplings in pos. 1 have to be loosened whilst holding the couplings in pos. 2 firm. Pos. 3 is no bleeding device and must not be actuated!



Bleeding



Example of installation differential pressure transmitter

Subject to technical modification without notice.

Product range 3
ti 210-EN/10/MW
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OVENTROP GmbH & Co. KG
Paul-Oventrop-Straße 1
D-59939 Olsberg, Germany
Phone +49 (0)29 62 82-0
Fax +49 (0)29 62 82-450
E-Mail mail@oventrop.de
Internet www.oventrop.de

For an overview of our global presence visit www.oventrop.de.