oventrop

Innovation + Quality

Valves, controls + systems

Measuring systems for the regulation of heating and cooling systems “OV-DMPC” “OV-DMC 2”

Product range





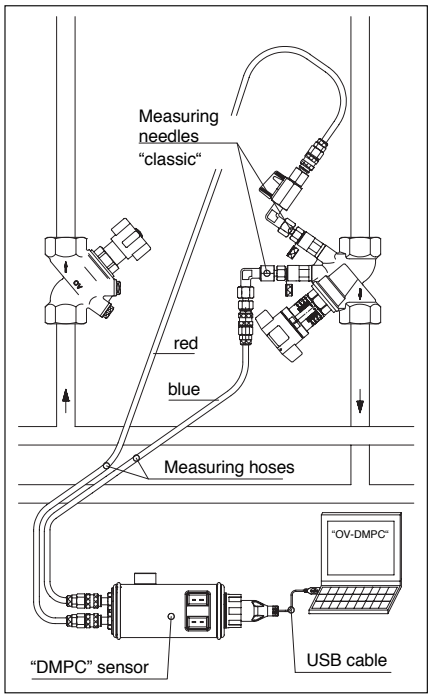




Measuring system “OV-DMPC” with USB interface



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The regulations and the resulting hydronic balancing of heating and cooling systems are becoming more and more important.

The new measuring device “OV-DMPC” is especially designed to make regulation on site easier.
The measuring system “OV-DMPC” is equipped with an USB interface for the connection to a commercial computer (notebook, tablet PC etc.) running a Windows operating system. Together with the included software, it enables an easy regulation of heating and cooling systems.

The “OV-DMPC” serves the measurement of regulating valves. Calculation of the presetting values for double regulating and commissioning valves is possible by entering the valve data and the required nominal flow rate. The characteristic lines of all Oventrop regulating valves are stored in the software.

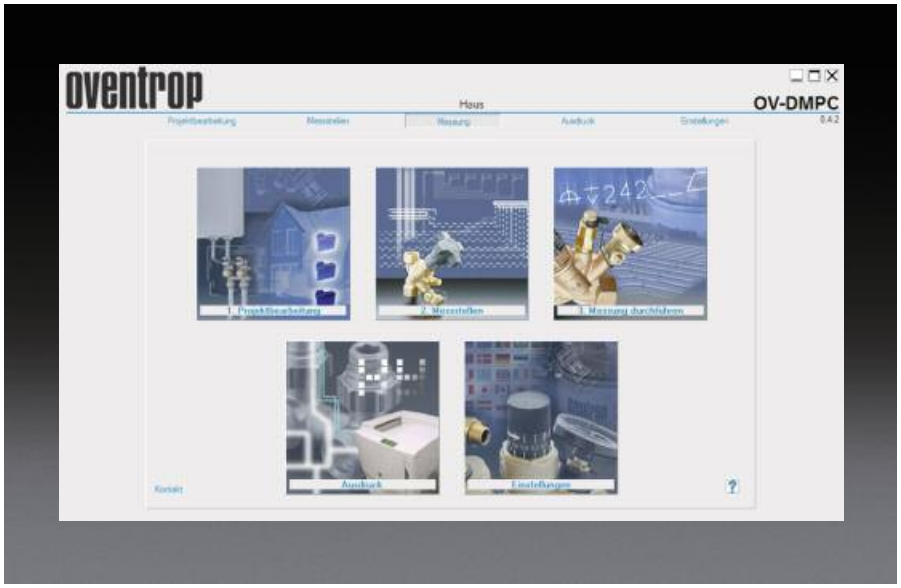
All accessories required for flow measurement (e.g. operating key, measuring adapter etc.) are included in the service case.

These are the main functions:
- Differential pressure measurement for confirmatory measurement
- Kv value method
- Computer method for easy regulation
- Balanced pressure method
- Temperature measurement with two temperature sensors (not included), for instance flow and return temperature
- Permanent measurement of differential pressures and temperatures
- Calculation of performance values

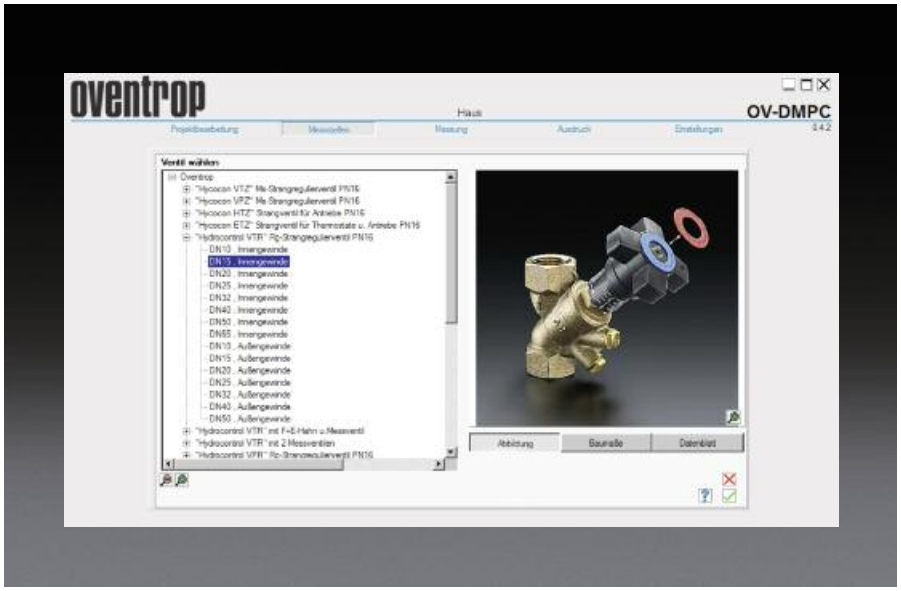
1 Measuring system “OV-DMPC”

2 System illustration

3 Measuring system “OV-DMPC” with notebook and double regulating commissioning valve “Hydrocontrol VTR”



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The included software runs under Windows (Windows XP and above).

The user friendly menu allows the measurement of different values in heating and cooling systems with only a few mouse clicks.
Projects which have already been calculated with the Oventrop programmes “OVselect” and “OVplan” can be imported.

The software offers the following functions:

- Project management
- Administration of the measuring marker points with visual support of the valve choice
- Menu for differential pressure and temperature measurement
- Printout of measured records
- Setting of system parameters for the activation of the USB measuring transducer

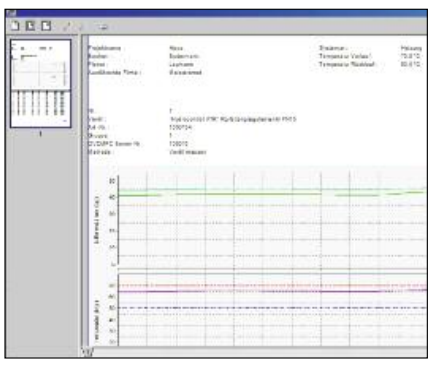
Advantages:
- Any notebook with USB connection working under operating system Windows can be used
- Simple printouts
- Simple and comfortable operation
- Storage of all measured data
- Valve recognition based on the stored valve data (photo, dimensions, technical data sheet)
- Permanent measurements possible
- Multilingualism
- Programme and data updates via internet
- Link with pipework calculation programme “OVplan”

1 Screenshot “OV-DMPC” software

2 Valve choice

3 Measurement and regulation menu

4 Example of printout



4

Measuring system “OV-DMC 2”



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The measuring system “OV-DMC 2” was especially designed for measuring the flow of Oventrop regulating valves. It is equipped with a watertight and dustproof keyboard and has a rechargeable battery ideal for on site application.

All accessories which are required for flow measurement (e.g. operating key, measuring adapter etc.) are included in the service case. The characteristic lines of all Oventrop regulating valves are stored in the flow-meter. After having entered the valve size and presetting, the flow rate is automatically displayed. For ease of handling, zero balance is automated. If no presetting of the double regulating and commissioning valve was calculated, it can be determined using the “OV-DMC 2”. By entering the valve size and the required flow rate, the computer will identify the differential pressure, compare the actual and nominal values and display the required presetting values.

All measuring results are stored in the “OV-DMC 2” and can be processed by using a PC with a Windows operating system. All data collected during regulation of the Oventrop double regulating valves according to DIN 18380/VOB can be documented by using the Oventrop software “Printout measured records”.

The differential pressure measuring range is between -0.05 and 200 kPa.

1 Measuring system “OV-DMC 2” with double regulating and commissioning valve “Hydrocontrol VTR”

2 Double regulating and commissioning valve “Hydrocontrol VFC” in measuring section

Further information can be found in the Oventrop catalogue “Products” or on the internet, product range 3.

Subject to technical modification.

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