



Danfoss PFM 100 Measuring Instrument User Guide

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Danfoss PFM 100 Measuring Instrument



Product Information

Product Name	PFM 100 Measuring Instrument
Application	The PFM 100 is used for measuring the differential pressure on both sides of a valve in hydronic systems.
Functions	The PFM 100 has an ON/OFF button, a menu button for navigating through menu options, and a confirmation button for selecting items.

<p>Technical Specifications</p>	<ul style="list-style-type: none"> • Type: Pressure sensor • Pressure range: Not specified • Max. overpressure: Not specified • Non-linearity and hysteresis error: Not specified • Temperature error: Not specified • Medium temperature: Not specified • Ambient temperature: Not specified • Storage temperature: Not specified • Pressure connection: Not specified • Batteries: Included • Power consumption: Not specified • Display: Yes • Keyboard: Yes • Pressure units: Not specified • Flow units: Not specified • Kv-range: Not specified • Dimensions: 94 x 218 x 35 mm • Weight: 600 g, including batteries • Cover: IP65 • Calibration validity: 12 months
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Product Usage Instructions

1. Connect the hoses to the valve.
2. Air the hoses.
3. Connect the valve to the PFM 100.
4. Perform zero adjustment:
 - From the main menu, select the Zeroing option to correct the static pressure influence.
 - Follow the instructions on the display to reset the device to zero.
5. Type in the Kv-value:
 - If the kV value of the measured valve is known, it can be entered in the PFM 100 to display the valve flow.
 - From the main menu, select the Kv value option.
 - Press the Confirmation button to go through the sequence of numbers.
 - Press the Menu button to increase/decrease the numbers.
 - Press and hold the Confirmation button to save and exit the menu.
6. Read off the flow in the display of the PFM 100.

Note: For more detailed information, refer to the user manual available at <https://manual-hub.com/>

Application

The PFM 100 is used for measuring the differential pressure on both sides of a valve in hydronic systems




The set consists of :

- One PFM 100 Measuring Instrument.
- two hoses with couplings.
- Two needles incl. ball valves.

Flow and pressure can be displayed in various units, which you can choose from in the menu. The PFM 100 can communicate with you in one of 10 possible languages. Please note that the pressure unit must not be exposed to subzero temperatures. The pressure unit must at all times be stored at temperatures above 0° C.

Functions



-  ON / OFF button.
-  Menu button. Used for navigating through the menu options. Press to enter the menu. Press and hold to exit the menu
-  Confirmation button. Press to select the marked item

Usage

1. Connect the hoses to the valve.
2. Air the hoses.
3. Connect the valve to the PFM 100.
4. Zero adjust.
 - From the main menu select the Zeroing option in order to correct the static pressure influence.
 - To reset the device to zero follow the instruction on the display.

5. Type in the Kv-value. If the kV value of the measured valve is known, it can be entered in the PFM 100 to display the valve flow.
- From the main menu select the Kv value option.
 - Press the Confirmation button to go through the sequence of numbers.
 - Press the Menu button to increase / decrease the numbers.
 - Press and hold the Confirmation button to save and exit the menu.
6. Read off the flow in the display of the PFM 100.

Technical Specifications

Type	Specifications
Pressure sensor	Piezo resistive true differential
Pressure range	10 bar
Max. overpressure	Positive side: 15 bar Negative side: 10 bar
Non-linearity and hysteresis error	0.15% of pressure range
Temperature error	1.5% over ambient and medium temperature
Medium temperature	-5 to 90°C
Ambient temperature	-5 to 50°C
Storage temperature	-5 to 50°C
Pressure connection	R21 quick couplers
Batteries	2 x AA NiMH rechargeable
Power consumption	Max. 55 mA
Display	128 x 64 monochromatic, backlight
Keyboard	3 keys
Pressure units	11
Flow units	11, incl. US units
k _v -range	0 to 99999, with 0.1 step
Dimensions	94 x 218 x 35 mm
Weight	600 g, incl. batteries
Cover	IP65
Calibration validity	12 months

Ordering PFM 100


No.	Type	Set / pcs	Danfoss code no.
1	FPM 100 Measuring Instrument	1	

Spare Part List

No.	Type	Set / pcs	Danfoss code no.
1	Measuring hose, 2 x 1.5 m	1 set	003L8261
2	Needle	1 pcs	003L8262
3	Quick coupling	1 pcs	003L8263
4	Filters	1 set	003L8264
5	Strap	1 pcs	003L8265
6	ASV-I/M measuring KIT for PFM100	1 set	003L8274

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Documents / Resources

	Danfoss PFM 100 Measuring Instrument [pdf] User Guide PFM 100 Measuring Instrument, PFM 100, Measuring Instrument, Instrument
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References

-  [Danfoss Climate Solutions for heating | Efficient solutions for superior comfort | Danfoss](#)
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