kamstrup



ULTRAFLOW® 85







> 60 °C

At a media temperature higher than 60 °C, the flow sensor should be shielded from unintended contact.



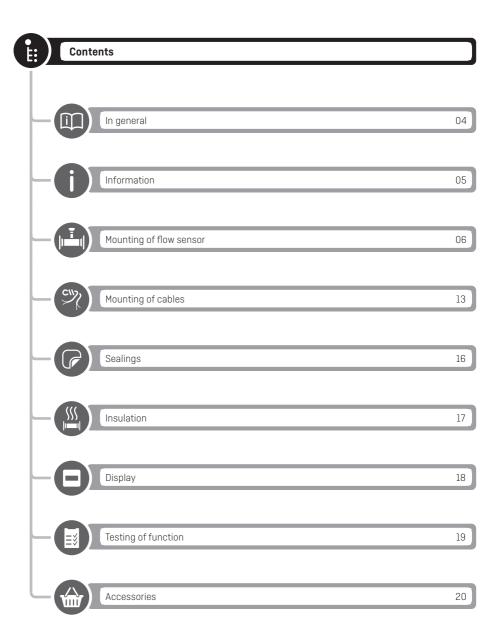
230 VAC

When connecting to a 230 V supply, there is a risk of electric shock.



16/25 bar

When working on the flow sensor in the installation, there is a risk of outflow of (hot) water under pressure.





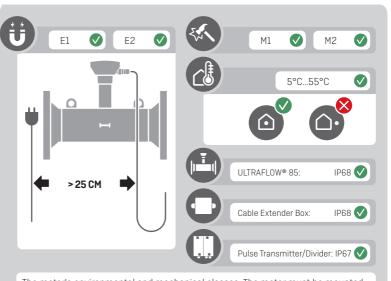
In general



https://www.kamstrup.com/

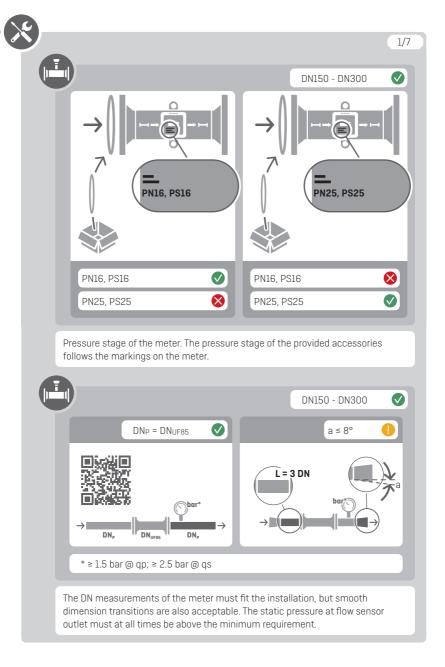






The meter's environmental and mechanical classes. The meter must be mounted indoors in the temperature range of 5 °C...55 °C. The meter's signal cables should be drawn at least 25 cm away from other installations.

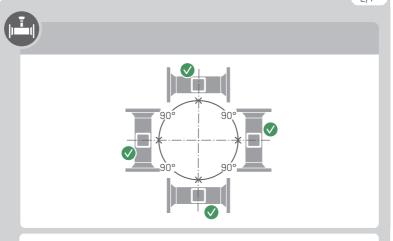




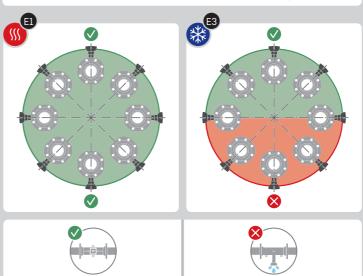








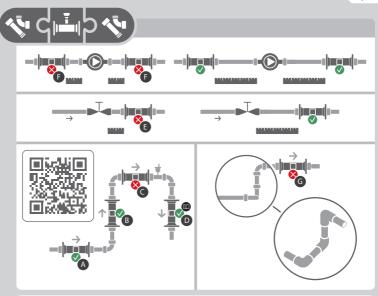
The flow sensor can be mounted horizontally, vertically or at an angle.



ULTRAFLOW® 85 can be installed in different orientations around the pipe axis. In case of a cooling installation the display must not be positioned downwards.



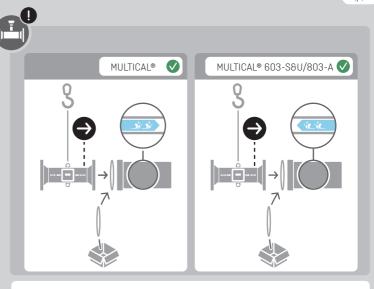




- A Recommended position horizontally mounted.
- B Recommended position vertically mounted with flow pipe upwards.
- C Unacceptable position due to risk of air build-up.
- Acceptable position in closed systems vertically mounted with flow pipe downwards.
- Ought not to be placed immediately after a valve, with the exception of block valves (ball valve type) which must be fully open when not used for blocking.
- **(F)** Ought not to be placed immediately before or after a pump.
- **G** Ought not to be placed immediately after a double bend in two planes.



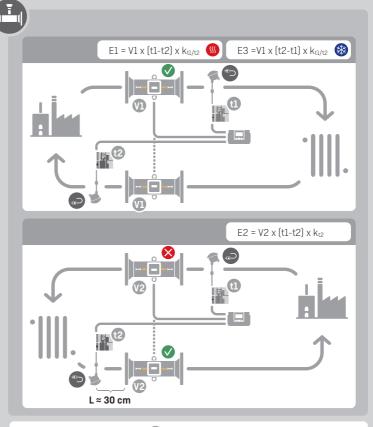




ULTRAFLOW® 85 is prepared to measure both forward flow, indicated with arrows on the flow sensor, and reverse flow. For reverse flow consult the data sheet of ULTRAFLOW® 85.





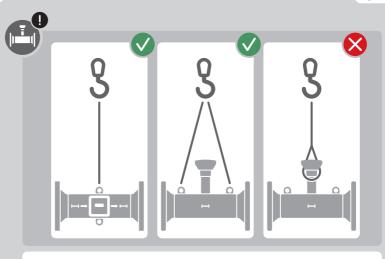


When measuring forward flow (1), ULTRAFLOW® 85 can be mounted in inlet and outlet. When ULTRAFLOW® 85 is measuring reverse flow (1), the flow sensor must be mounted in outlet next to (2) to obtain a correct energy calculation.

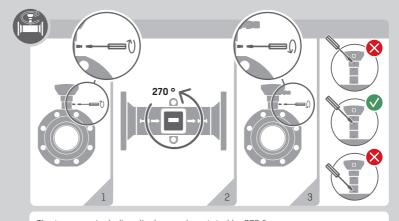








 ${\tt ULTRAFLOW}$ 85 may be lifted in the lifting rings only. Do not lift on the electronics box.

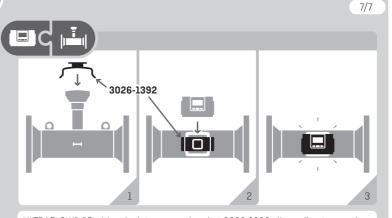


The top cover including display can be rotated by 270 °.

- 1 Loosen the screw on the side
- 2 Rotate the top cover
- 3 Fasten the screw again



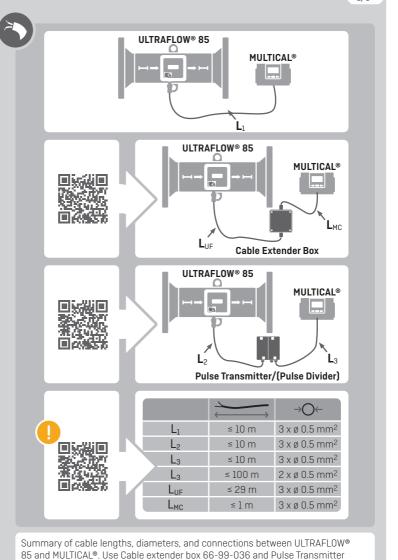




ULTRAFLOW® 85 with calculator mount bracket 3026-1392 allows direct mounting of MULTICAL® 603/803 on the top cover of ULTRAFLOW® 85.







66-99-903-YZ-XXX/(Divider 66-99-907-YZ-XXX) for extensions. Refer to

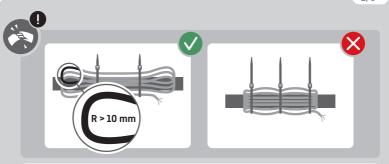
supplementary technical documentation for details.



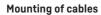
Mounting of cables



2/3

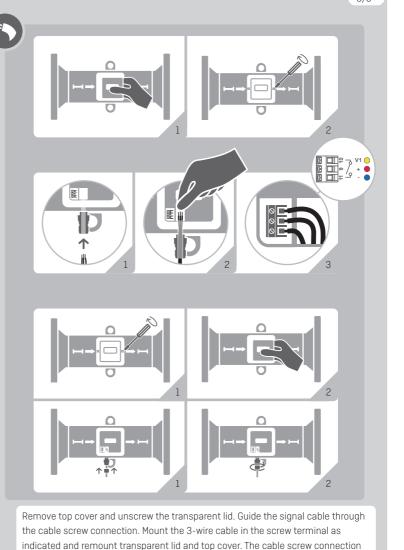


If too long cables are bent in connection with the mounting, a bending radius of at least 10 mm must be ensured.







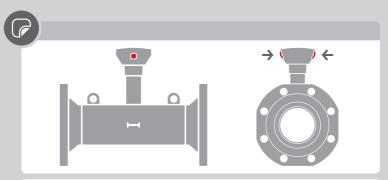


must be tightened.



Sealings



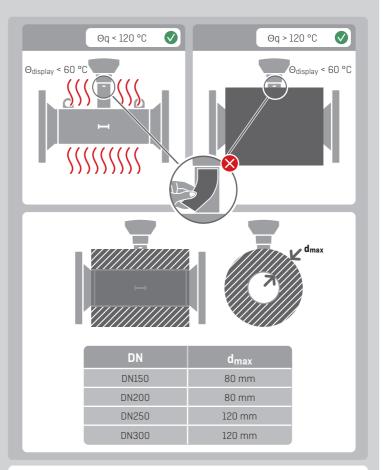


Mounting of installation seals. To protect ULTRAFLOW® 85 against fraud the top cover must be sealed with sealing labels.





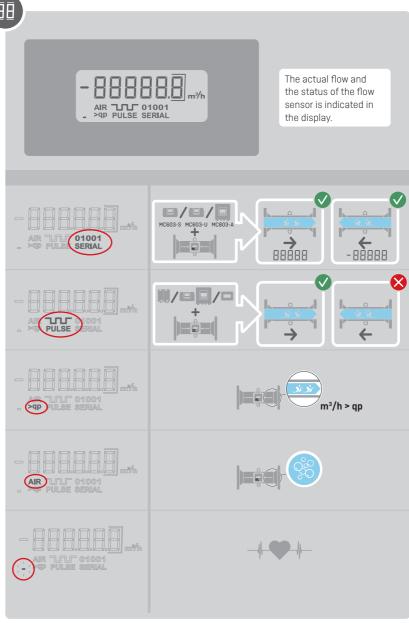




At a medium temperature $\Theta_q > 120$ °C the flow sensor must be insulated to avoid overheating of the display. The ventilation hole must not be covered, when insulating the flow sensor. Consider the max thickness of the insulation sheet as indicated in the tabel to avoid covering of the ventilation hole.

Display

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Testing of function

