

## ULTRAFLOW® 44

Flow sensor family DN15-125 with the highest condensation protection for heat installations



Have you already experienced how your valuable heat meter has been seriously damaged by water penetration? Do you have an underground installation, which might temporarily become flooded? Exactly for these installations, Kamstrup offers you a waterproof (IP68) flow sensor family ULTRAFLOW® 44, which tolerates to be submerged for up to 2 months!

In case you are in doubt about what will happen with the attached calculator, which due to its lower IP class normally does not tolerate to be submerged, ULTRAFLOW® 44 is the right solution for this challenge. Together with MULTICAL® 603 or 803, it provides all the benefits of a split meter with fairly long cables of more than 10 m between the meter housing and the attached MULTICAL® calculator. This means that they can easily be mounted (and dismantled, if necessary during the installation) on screw terminals under an installation seal of the attached MULTICAL® 603 or 803. Thereby, the calculator can easily be mounted elsewhere in environments without the risk of being flooded.

ULTRAFLOW® 44 has been designed from the start with a clear focus on water protection. The IP class of the flow sensor is IP68 including its electronics box. Technically, this challenge has been solved by protecting the transducers with gel and grease like in our flow sensors for the cooling meters MULTICAL® 303-C and MULTICAL® 403-C, and the

PCB is simply completely encapsulated in its electronics box. This kind of condensation protection prepares ULTRAFLOW® 44 for even harsh environmental conditions where the flow sensor can temporarily be flooded (for up to 2 months), e.g. in some underground installations. ULTRAFLOW® 44 is approved according to EN 1434 for both MID heat (DK-0200-MI004-044) and BEK-1178 cooling (TS 27.02 014).

Note that we, for ordinary heat installations, still clearly advice to use ULTRAFLOW® 54, which has been designed as a flow sensor for heat meters, together with MULTICAL®. However, in case of particular challenging (underground) installations, which might temporarily become flooded (for up to 2 months), Kamstrup can now provide you with ULTRAFLOW® 44 as the proper solution for this. Further benefits and technical details of ULTRAFLOW® 44 can be found in the available documentation.

## ULTRAFLOW® 44 is your right flow sensor for heat meters in case that ...

- you need extra condensation protection of your flow sensor (IP68) in your installation
- your installation becomes temporarily flooded (for up to 2 months)
- you prioritise to have the opportunity to directly mount a temperature sensor in the flow sensor, also in the flanged meters  $q_p$  6 m<sup>3</sup>/h (DN25 x 260 mm) and  $q_p$  10 m<sup>3</sup>/h (DN40 x 300 mm).
- you prioritise to have a low pressure loss of below 0.15 bar @  $q_p$ .

Note that ULTRAFLOW® 44 does NOT supersede ULTRAFLOW® 54. This means that ULTRAFLOW® 54 in combination with MULTICAL® 603 and 803 will, in most cases still be your preferred choice for a heat meter installation. Please contact your local sales engineer for further consultancy.



## Think forward

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