

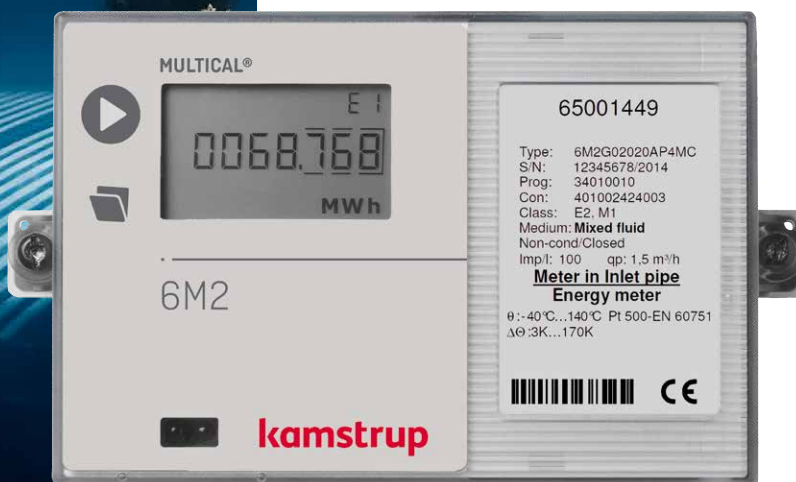
MULTICAL® 6M2

**kamstrup**



The single-box solution that's taking energy efficiency to a new level

- Cooling
- Solar heating
- Geothermal



# Keep Cool – Stay Warm

Whether comfort cooling or solar heating, you can get the maximum energy efficiency of your system with a MULTICAL® 6M2 energy meter. MULTICAL® 6M2 lets you monitor the performance of a heating or cooling system 24/7 to get the most out of your clean energy investment.

Tailored for mixed fluids, MULTICAL® 6M2 is compatible with most common antifreeze liquids (ethylene & propylene glycol, tyfocor, antifrogen) used in industrial/commercial and domestic applications.

- ✓ Sub-zero temperature measurement
- ✓ Programmable chemical composition and concentration level
- ✓ Adjustable for any applications: heating, cooling, solar and geothermal

A Kamstrup meter as you know it:

- Reliable
- Robust
- Accurate

**Mixed fluids** have a lower specific heat capacity compared to that of water. The type of antifreeze liquid and the concentration are freely programmable and thus MULTICAL® 6M2 can compensate for the unique specific heat capacity in each application, ensuring a high accuracy regardless of the chemical composition or the application.

MULTICAL® 6M2 can operate in **sub-zero temperatures**, with a temperature range of -40...+140 °C.

MULTICAL® 6M2 can be fitted with a wide range of **communication modules** to allow data integration with Building Management Systems through pulsed outputs, M-Bus, LonWorks, BACnet or Modbus.



# Keep track of your energy efficiency

As with all Kamstrup meters, MULTICAL® 6M2 can be supplied with power or battery. The battery has 13 years lifetime.

MULTICAL® 6M2 is your guarantee that energy in any mixed fluid application is monitored and measured accurately during the entire lifetime of the meter with an absolute minimum of maintenance checks. The operating costs are minimal and cost saving thereby a reality.

## Sharp analysis

MULTICAL® 6M2 constantly monitors power supply and the function of the temperature sensors. If an error occurs an INFO code will appear in the display. An info logger registers and stores all irregularities and changes. MULTICAL® 6M2 is also fitted with an integral RTC and saves yearly, monthly, daily and hourly loggers which can easily be read and analysed as part of the daily operations optimisation.

### Hassle-free installation

MULTICAL® 6M2 is a single-box solution containing a preprogrammed integrator, a mechanical flow meter and temperature sensors. No need for configuration or pairing of calculator and flow part; just bring the box to the installation site as it is.

## Easily adjustable

With the free download-able configuration software METERTOOL you easily configure/reconfigure MULTICAL® 6M2 and change the chemical composition to fit any installation.



## Fluid codes

MULTICAL® 6M2 is programmed to a certain chemical composition and concentration level based on the 4 digit fluid code.

*Please note that there is no proportional relationship between the K-factor and the temperature or resolution.*

\* The K-factor is calculated with a 30 % resolution and with temperatures at 15 °C in inlet and 5 °C in outlet.

\*\* The K-factor is calculated with temperatures at 15 °C in inlet and 5 °C in outlet. The fluids are premixed.\*

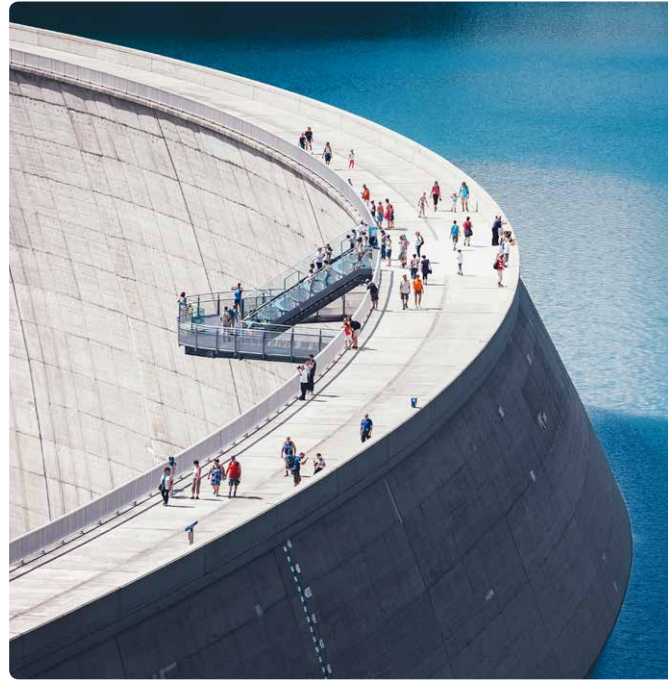
Fluid	Fluid code	Relative K-factor [%]
Water	-	100
Monoethylene glycol	1130	91
Propylene glycol	1330	94
Tyfocor	2030	95
Tyfocor L	2130	94
Antifrogen N	3030	92
Antifrogen L	3130	95
Tyfocor LS Standard	2200	88
Tyfocor LS Arctic	2300	83
Tyfocor LS Medit.	2400	95
Antifrogen SOL HT	3200	83

## We make progress for others

Kamstrup is a world-leading supplier of energy and water metering solutions. Our solutions support utilities and are also applied in properties with individual metering. For 70 years, we have delivered reliable, cost-effective ways to measure and manage energy and water consumption worldwide.

By anticipating our customers' challenges, we enable them to run a better business and inspire smarter, more responsible solutions for the communities they serve. Our solutions include consumption meters, smart metering systems, hosting and services, analytics and smart grid applications. All products are produced with the highest certifications for environmental safety and quality in our automated production facilities in Denmark.

We are represented in more than 60 countries worldwide by local offices or by distributors.



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## Think forward