

MULTICAL® 61

Cold water metering for trade and industry



Every single water drop

has a right to be distributed, tapped and billed with the highest possible accuracy. But also utilities and consumers are entitled to hygienically approved water meters, so that we can all observe and reduce our consumption without compromising our health.

Every single water meter

can measure consumption. But, the ultrasonic meter MULTICAL® 61 measures consumption with clockwork precision and meets the market demand for longevity, stability, leakage surveillance and no wear – in step with increasing environmental demands.

Every single investment

in MULTICAL® 61 pays dividends for you who require a guarantee of reliable billing and the lowest possible operational costs. Add to this that MULTICAL® 61 is the only water meter in the world which is tested and approved according to the Danish hygienic standard, VA. MULTICAL® 61 is not only a profitable investment, but also a healthy investment in our vital drinking water.



MULTICAL® 61 – the perfect compact meter for your cold water metering

The compact meter MULTICAL® 61

Kamstrup's cold water meters provide you with state of the art cold water metering technology. MULTICAL® 61 sets new standards for flexible and reliable cold water metering within trade and industry. In other words the measuring accuracy is second to none.

The advanced compact meter for cold water metering, MULTICAL® 61 is approved according to MID (OIML R 49) and consists of the calculator MULTICAL® 601 and the flow sensor ULTRAFLOW® 24. The flow sensor and the calculator are connected via pulse cable of 2.5 m which can be extended up to 10 m by means of a Pulse Transmitter.

The calculator in MULTICAL® 61

MULTICAL® 61 enables you to work with up to two modules simultaneously, e.g. datalogger with radio. With two extra pulse inputs the cold water meter can collect pulses from another water and/or electricity meter.

MULTICAL® 61 is equipped with an info event counter which reveals and registers all irregularities, among those tamper attempts in the shape of power supply cut-offs.

The flow sensor in MULTICAL® 61

The MULTICAL® 61 range comprises flow sensors between Q_3 1.6 and 40 m³/h. The flow sensor is used for measurement of cold water with flow temperatures from 0.1° C to 50° C.

In order to ensure immunity against flow disturbances – and thus obtain the most precise measurements – cold water meters Q_3 1.6 m³/h utilise the single beam ultrasonic principle, while cold water meters Q_3 2.5 – 40 m³/h use the triangle beam principle.

MULTICAL® 61 is a moisture resistant flow part as the signal converter is located in the calculator installed away from the condensing pipes.





High demands require high standards

Ultrasonics

The static ultrasonic meter, MULTICAL® 61 is not vulnerable to wear caused by dirty water – contrary to traditional cold water meters. More than 15 years' experience has proved that the ultrasonic principle is most reliable in the long term. The flow is measured using bidirectional ultrasonic technique based on the transit time method, where ultrasonic transducers send the sound signal both against and with the flow direction.

Hygienic approval

The MULTICAL® 61 is the only water meter in the world that is tested and approved according to the Danish hygienic standard, VA. This voluntary VA approval for water supply and drainage systems guarantees that MULTICAL® 61 meets the requirements for liberation of toxic metals, with maximum quantities of 2 micrograms for cadmium and 20 micrograms for lead – to guarantee our vital drinking water.

Accuracy

The robust ultrasonic meters for cold water metering are extremely accurate and stable as they do not contain any moving parts to wear out. MULTICAL® 61 measures with an accuracy of $\pm 2\%$, and the long term stability and accuracy of the flow meter are maintained even at flow rates far beyond the nominal flow rate.

Memory

MULTICAL® 61 stores all consumption data for 460 days, 36 months and 15 years, and hourly information is available as an option. Analysis of these registers permits closer understanding of water usage through trouble-shooting, diagnostics and tamper detection.

Moisture resistance

Humidity and condensation have a tough time against MULTICAL® 61. Thanks to its unique design where the signal converter is located away from the condensing pipes, the flow part is resistant to moisture penetration. In other words, MULTICAL® 61 is the right choice for you who demand moisture resistant meters, exact measuring and operational stability.

Remote reading

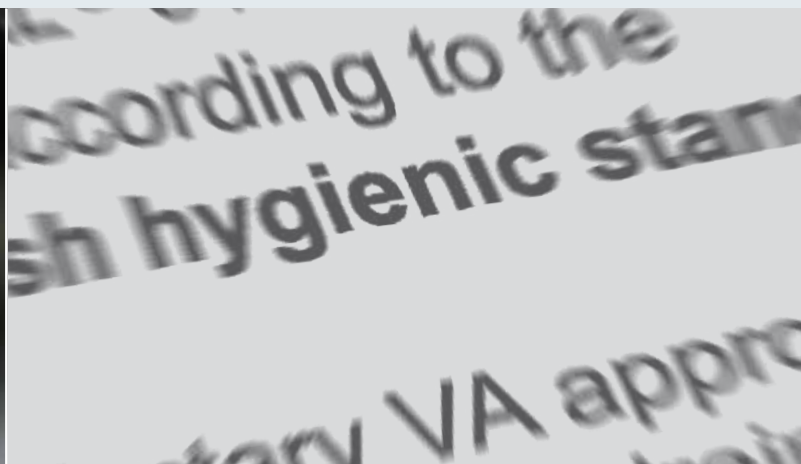
MULTICAL® 61 provides you with reliable remote reading options such as radio, M-Bus or LonWorks, which deliver meter data to a central system without human intervention. MULTICAL® 61 is able to perform data communication on two ports simultaneously, for instance LonWorks for Building Management Systems and M-Bus for billing purposes.

Leakage control

MULTICAL® 61 constantly surveys the cold water consumption. If the meter does not register at least 1 hour a day without flow, this might indicate leaking taps or leaking toilet cisterns. In case MULTICAL® 61 detects a leakage, you can receive alarm notification via sms. This warning system helps you to reduce your consumption, limits possible damages and helps to protect the environment.

Billing

Accurate measurements aim at enhancing the consumers' confidence in accuracy of billing. This leads to reduced consumer complaints as well as reduced revenue leakage. MULTICAL® 61 informs you of accurate water usage and provides you with trustworthy billing, any time.





Our ultrasonic metering solution – your **ultra** strong partner

Kamstrup is a world leading manufacturer of energy metering and systems solutions.

We deal with the measuring of heat, cooling, water, electricity and gas energy. Furthermore, in cooperation with you, we can develop AMR and service solutions that are customized to your company.

We are represented in 60 countries worldwide by Kamstrup sales and subsidiary offices or by our distributors.

All employees work hard to offer your company the very best service and to respond to global market information provided by our trusted partners. In this way, we maintain a strong mutual cooperation.

The Kamstrup brand

– when you demand quality, reliability, innovation and partnership.

