

MULTICAL® 402
MULTICAL® 602
MULTICAL® 801

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Facts Advantages Benefits



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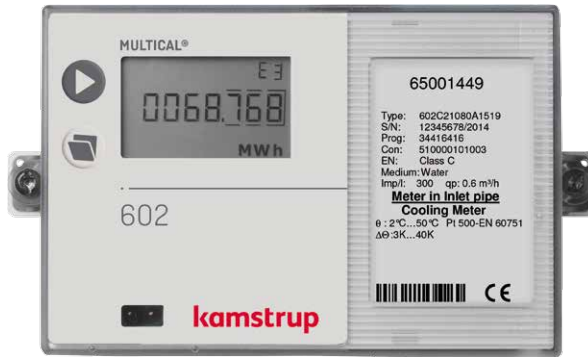


Fact	Advantage	Benefit
Ultrasonic technology	<ul style="list-style-type: none"> • Long term stability and accurate measuring • Highest measuring quality • No mechanical parts 	<ul style="list-style-type: none"> • Reliability in consumption and billing • Maintenance-free • Low lifetime costs • Revenues
Compact meter	<ul style="list-style-type: none"> • Does neither require straight inlet nor straight outlet 	<ul style="list-style-type: none"> • Easy to install
Remote reading: Wired and wireless M-Bus, radio via USB Meter Reader, hand-held terminal or via AMR	<ul style="list-style-type: none"> • Scalable network solution 	<ul style="list-style-type: none"> • Low installation costs • Reading at any time desired • Less labour costs • Safe reading for export to billing packages • Network solutions according to needs and financial situation
Info codes: Info-logger ¹⁾ Info event counter ²⁾	<ul style="list-style-type: none"> • Informs about: power failure, temperature sensor outside measuring range or flow sensor installed in the wrong flow direction 	<ul style="list-style-type: none"> • Troubleshooting possible pressure loss, tamper detection and analysis of the amount of energy consumed
Data logger	<ul style="list-style-type: none"> • Data storage: yearly (15 years), monthly (36 months) and daily (460 days) 	<ul style="list-style-type: none"> • Troubleshooting possible pressure loss, tamper detection and analysis of the amount of energy consumed
Up to 16 years' battery lifetime	<ul style="list-style-type: none"> • No maintenance • No need to change battery 	<ul style="list-style-type: none"> • Low operational costs
Auto-configuration	<ul style="list-style-type: none"> • Automatic configuration from pulse input to pulse output and vice versa without reconfiguration of the meter 	<ul style="list-style-type: none"> • Flexible and easy configuration
Set/reset function	<ul style="list-style-type: none"> • By means of the calculator's two front keys the installer can adjust/reset various readings 	<ul style="list-style-type: none"> • User friendly reset function

¹⁾ Info-logger: Saves the latest 50 changes, of which 35 can be displayed

²⁾ Info event counter: Indicates how many times the info code has been changed

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Ultrasonic technology	<ul style="list-style-type: none"> • Long term stability and accurate measuring • Highest measuring quality • No mechanical parts 	<ul style="list-style-type: none"> • Reliability in consumption and billing • Maintenance-free • Low lifetime costs • Revenues
Wired and wireless communication modules: 1) Wired: LON, SIOX, M-Bus, Metasys N2, Ethernet/ IP and BACnet 2) Wireless: radio, Wireless M-Bus, ZigBee, GSM/GPRS or HighPower Radio Router	<ul style="list-style-type: none"> • Communication modules available for all applications 	<ul style="list-style-type: none"> • Unlimited communication • Integration to systems including BMS and AMR • Cover all demands for communication
Info codes: Info-logger ³⁾ Error hour counter ⁴⁾ Info event counter ⁵⁾	<ul style="list-style-type: none"> • Informs about: power failure, leakage, burst, or sensor installed in the wrong flow direction 	<ul style="list-style-type: none"> • Troubleshooting possible pressure loss, tamper detection and analysis of the amount of energy consumed • Complete leak detection for quick corrective actions

³⁾ Info-logger: Saves the latest 50 changes, of which 35 can be displayed

⁴⁾ Error hour counter: Registers the hours during which the info code exceeds zero

⁵⁾ Info event counter: Indicates how many times the info code has been changed

Fact	Advantage	Benefit
Data logger	<ul style="list-style-type: none"> Data storage: yearly (15 years), monthly (36 months), daily (460 days) and hourly (1392 hours) 	<ul style="list-style-type: none"> Troubleshooting possible pressure loss, tamper detection and analysis of the amount of energy consumed Complete leak detection for quick corrective actions
Real Time Clock (RTC) as standard	<ul style="list-style-type: none"> Actual date/time shown, even if mains disappear 	<ul style="list-style-type: none"> Data reading available on exact date/time Safe reading of consumption and billing
Back-up of data in case of power loss	<ul style="list-style-type: none"> Back-up of all main registers 	<ul style="list-style-type: none"> Reliable registers No loss of measurement Protection of revenue
Up to 13 years' battery lifetime	<ul style="list-style-type: none"> No maintenance No need to change battery 	<ul style="list-style-type: none"> Low operational costs
Two communication modules in one calculator	<ul style="list-style-type: none"> The meter adapts to various applications 	<ul style="list-style-type: none"> Separate data for more systems Customer can organize his own system
High power supply module	<ul style="list-style-type: none"> Stronger infrastructure, since it supplies more power than traditional supply modules Wider possibilities for Radio Mesh Network 	<ul style="list-style-type: none"> Saves time on data collection Easier analysis of consumption data Prevents inefficient energy consumption
External pulse input features	<ul style="list-style-type: none"> Possible to read third part device meters i.e. gas, electricity, water, steam 	<ul style="list-style-type: none"> Efficient operation
Power-saving microprocessor	<ul style="list-style-type: none"> Power saving 	<ul style="list-style-type: none"> Cost effective
Set/reset function	<ul style="list-style-type: none"> By means of the calculator's two front keys the installer can adjust/reset various readings 	<ul style="list-style-type: none"> User friendly reset function

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Fact	Advantage	Benefit
Ultrasonic technology	<ul style="list-style-type: none"> • Long term stability and accurate measuring • Highest measuring quality • No mechanical parts 	<ul style="list-style-type: none"> • Reliability in consumption and billing • Maintenance-free • Low lifetime costs • Revenues
Sealing with IP67 approval	<ul style="list-style-type: none"> • Proven resistant to dust, moisture and water • Robust design installable in dusty and humid environments 	<ul style="list-style-type: none"> • Flexible mounting • Low maintenance costs
Automatic built-in valve controller	<ul style="list-style-type: none"> • Max flow maintained across the valve to regulate consumption and to ensure that max flow is not exceeded 	<ul style="list-style-type: none"> • Reduction of both water consumption and expenses
Info codes: Info-logger ⁶⁾ Info event counter ⁷⁾	<ul style="list-style-type: none"> • Informs about: power failure, leakage, burst, or sensor installed in the wrong flow direction 	<ul style="list-style-type: none"> • Troubleshooting possible pressure loss, tamper detection and analysis of the amount of energy consumed • Complete leak detection for quick corrective actions
Data logger	<ul style="list-style-type: none"> • Data storage: yearly (15 years), monthly (36 months) and daily (460 days) 	<ul style="list-style-type: none"> • Troubleshooting possible pressure loss, tamper detection and analysis of the amount of energy consumed • Complete leak detection for quick corrective actions
Illuminated display	<ul style="list-style-type: none"> • Can be read in the dark without additional light source 	<ul style="list-style-type: none"> • Easy to read in poorly lit locations • Reading safety
Approved for long cable lengths	<ul style="list-style-type: none"> • Temperature sensor and flow meter cables of up to 100 metres 	<ul style="list-style-type: none"> • Meets the demand for flexible installation in industrial applications • Possible to locate the calculator in more convenient positions • Lower operational costs

⁶⁾ Info-logger: Saves the latest 50 changes, of which 35 can be displayed

⁷⁾ Info event counter: Indicates how many times the info code has been changed

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

Kamstrup is a world leading manufacturer of system solutions for smart energy and water metering.

Our core areas are measurement of heat, cooling, water and electricity.

Furthermore, in co-operation with you we develop AMR and service solutions that are customised for your company.

We are represented in more than 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 co-operation.

The Kamstrup brand

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

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Think forward