

Product Overview Heat/Cooling



	MULTICAL® 302	MULTICAL® 403
Typical area of use	Residential	Residential, small business
Measuring principle	Ultrasonic	Ultrasonic
Metering type	Heat, cooling, heat/cooling	Heat, cooling, heat/cooling
Type	Complete meter - inseparable	Complete meter - inseparable (temperature sensors - separable)
Heat (MID) and cooling (TS) approvals	Yes	Yes
Flow sensor cable	1.2 m	1.5 m
Temperature sensor cables	2-wire: 1.5 m	2-wire: ≤ 10 m
On-site configuration, e.g. inlet/outlet	Yes	Yes
Nominal flow	0.6 - 2.5 m ³ /h	0.6 - 15 m ³ /h
Sizes	DN15 - DN20	DN15 - DN50
Pressure loss at nominal flow	Typically < 0.1 bar	Typically < 0.1 bar
Battery life	Up to 16 years	Up to 16 years
Supply	Battery	Battery, 24 VAC/VDC, 230 VAC
Module slots	None - integrated	1 slot
Communication	Wireless M-Bus or M-Bus	Wireless M-Bus, M-Bus, BACnet, Modbus and analog output
Data logger	15 years, 24 months, 460 days and 960 hours	Programmable
Backlit display	No	No

Product Overview Heat/Cooling



	MULTICAL® 603	MULTICAL® 801
Typical area of use	Residential, small business, industrial	Small business, industrial
Measuring principle ULTRAFLOW®	Ultrasonic	Ultrasonic
Metering type	Heat, cooling, heat/cooling	Heat, cooling, heat/cooling
Type	Combined meter - separable subassemblies	Combined meter - separable subassemblies
Heat (MID) and cooling (TS) approvals	Yes	Yes
Flow sensor cable	ULTRAFLOW®: ≤ 10 m Cable Extender Box: < 30 m Pulse Transmitter: ≤ 100 m	ULTRAFLOW®: ≤ 10 m Pulse Transmitter: ≤ 100 m
Temperature sensor cables	2-wire: ≤ 10 m 4-wire: ≤ 100 m	2-wire: ≤ 10 m 4-wire: ≤ 100 m
On-site configuration, e.g. inlet/outlet	Yes	No
Nominal flow ULTRAFLOW®	0.6 - 1000 m³/h	0.6 - 1000 m³/h
Sizes ULTRAFLOW®	DN15 - DN300	DN15 - DN300
Nominal flow MULTICAL®	0.6 - 15000 m³/h	0.6 - 30000 m³/h
Pressure loss at nominal flow ULTRAFLOW®	Typically < 0.1 bar	Typically < 0.1 bar
Battery life	Up to 16 years	Only mains supply
Supply	Battery, 24 VAC/VDC, 230 VAC	24 VAC/VDC, 230 VAC
Module slots	2 slots + integrated M-Bus	2 slots
Communication	Wireless M-Bus, M-Bus, BACnet, Modbus, LonWorks, analog output and analog input	Wireless M-Bus, M-Bus, Kamstrup Radio, LonWorks, ZigBee, Metasys N2, SIOX, GSM
Data logger	Programmable	15 years, 36 months, 460 days and programmable data logger
Backlit display	Yes	Yes