

# Product Overview

## Heat/Cooling



	MULTICAL® 303	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 Flow sensor and calculator - inseparable Temperature sensor and calculator - separable (requires reverification)	Complete meter Flow sensor and calculator - inseparable Temperature sensor and calculator - separable
Heat [MID] and cooling [TS] approvals	Yes	Yes
Flow sensor cable	1.5 m	1.5 m
Temperature sensor cables	2-wire: 1.5 - 3 m	2-wire: 1.5 - 10 m
On-site configuration, e.g. inlet/outlet	Yes	Yes
Nominal flow	0.6 - 2.5 m <sup>3</sup> /h	0.6 - 15 m <sup>3</sup> /h
Sizes	DN15 - DN20	DN15 - DN50
Pressure loss at nominal flow	< 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
Communication	Wireless M-Bus or M-Bus	Wireless M-Bus, M-Bus, BACnet, Modbus and analog output
Data logger	Programmable logging intervals from 1 minute to 1 year	Programmable logging intervals from 1 minute to 1 year
Backlit display	No	No
Mixed fluid compatible	No	No



	MULTICAL® 603	MULTICAL® 803
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 Cable Extender Box: ≤ 30 m Pulse Transmitter: ≤ 100 m
Temperature sensor cables	2-wire: 1.5 - 10 m 4-wire: 1.5 - 100 m	2-wire: 1.5 - 10 m 4-wire: 1.5 - 100 m
On-site configuration, e.g. inlet/outlet	Yes	Yes
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 - 15000 m³/h
Pressure loss at nominal flow ULTRAFLOW®	Typically < 0.1 bar	Typically < 0.1 bar
Battery life	Up to 16 years	6-year battery backup
Supply	Battery, 24 VAC/VDC, 230 VAC	24 VAC/VDC, 230 VAC
Module slots	2 + integrated M-Bus	4
Communication	Wireless M-Bus, M-Bus, BACnet, Modbus, LonWorks, analog output and analog input	Wireless M-Bus, M-Bus, BACnet, Modbus, LonWorks, analog output and analog input
Data logger	Programmable logging intervals from 1 minute to 1 year	Programmable logging intervals from 1 minute to 1 year
Backlit display	Yes (option)	Yes (standard)
Mixed fluid compatible	Yes (option)	Yes (option)

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