

Heating and cooling energy meter (compact) with volume transmitter as ultrasonic flow meter

DIGICONTROL W-MC603...

Data sheet number 83310



Ultrasonic meter for measuring and registering heating and cooling energy consumption. MULTICAL® 603 calculator with M-Bus module pursuant to EN 13757 with two additional pulse inputs in Pt 500 design with connection bracket and optical interface. Mains operation with enhanced logging and data logger. Ultrasonic flow sensor including 2.5 m connection cable up to DN100 and 5m from DN150. Two temperature sensors Pt 500 as DS/10 direct sensors with 1.5 m cable and connecting nipple 1/2 or temperature sensor with Niro immersion sleeves.

TECHNICAL DATA

Voltage	<ul style="list-style-type: none"> ■ 230 V AC +15 / -30 %, 50/60 Hz ■ 24 V AC +/-50 %, 50/60 Hz ■ Battery supply
Media temperature	<ul style="list-style-type: none"> ■ Cold: +2...+50 °C ■ Warmth: +15...+130 °C
Interfaces	M-bus
Installation position	Horizontal/vertical
Lifespan	Battery: up to 16 years
Protection class	IP65
Ambient temperature	-5...+55 °C
Storage temperature	-25...+60 °C
Environmental class	EN 1434 designation: A and C
Standards/rules/guidelines/ approvals	Approval: Standard: prEN 1434:2014 and OIML R75:2002 DK-0200-MI004-020 EU-directives: MID, LVD, EMC MID designation: Mechanical environment Class M1 and M2 Electromagnetic environment Class E1 and E2 Niro immersion sleeves: Length 65/90/140 mm (Standard: 65 mm up to DN25, 90 mm up to DN80, 140 mm from DN100) Standard sensor cable length: Length 1.5/3/5/10 m (Standard: 1.5 m up to DN25, 3 m from DN40, 5 m from DN150) Threaded version: incl. threaded connecting parts
Other remarks	

TYPE LIST

TYPE	QP	MEDIUM	DIAMETER NOMINAL	PRESSURE STAGE	CONNECTION	OVERALL LENGTH
W-MC603W-0,6G15	0.6 m ³ /h	Heat	DN 15	PN16	G 3/4 B	110 mm
W-MC603W-0,6G20	0.6 m ³ /h	Heat	DN 20	PN25/16	G 1 B	130 mm
W-MC603W-1,5G15	1.5 m ³ /h	Heat	DN 15	PN16	G 3/4 B	110 mm
W-MC603K-1,5G15	1.5 m ³ /h	Cooling	DN 15	PN16	G 3/4 B	110 mm
W-MC603W-1,5G20	1.5 m ³ /h	Heat	DN 20	PN25/16	G 1 B	130 mm
W-MC603K-1,5G20	1.5 m ³ /h	Cooling	DN 20	PN25/16	G 1 B	130 mm

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TYPE LIST

TYPE	QP	MEDIUM	DIAMETER NOMINAL	PRESSURE STAGE	CONNEC- TION	OVERALL LENGTH
W-MC603W-2,5G20	2.5 m ³ /h	Heat	DN 20	PN25/16	G 1 B	190 mm
W-MC603K-2,5G20	2.5 m ³ /h	Cooling	DN 20	PN25/16	G 1 B	190 mm
W-MC603W-3,5G25	3.5 m ³ /h	Heat	DN 25	PN25/16	G 5/4 B	260 mm
W-MC603K-3,5G25	3.5 m ³ /h	Cooling	DN 25	PN25/16	G 5/4 B	260 mm
W-MC603W-6F25	6 m ³ /h	Heat	DN 25	PN25	Flange	260 mm
W-MC603K-6F25	6 m ³ /h	Cooling	DN 25	PN25	Flange	260 mm
W-MC603W-6G25	6 m ³ /h	Heat	DN 25	PN25/16	G 5/4 B	260 mm
W-MC603K-6G25	6 m ³ /h	Cooling	DN 25	PN25/16	Flange	260 mm
W-MC603W-10F40	10 m ³ /h	Heat	DN 40	PN25	Flange	300 mm
W-MC603K-10F40	10 m ³ /h	Cooling	DN 40	PN25	Flange	300 mm
W-MC603W-10G40	10 m ³ /h	Heat	DN 40	PN25/16	G 2 B	300 mm
W-MC603K-10G40	10 m ³ /h	Cooling	DN 40	PN25/16	G 2 B	300 mm
W-MC603W-15F50	15 m ³ /h	Heat	DN 50	PN25	Flange	270 mm
W-MC603K-15F50	15 m ³ /h	Cooling	DN 50	PN25	Flange	270 mm
W-MC603W-25F65	25 m ³ /h	Heat	DN 65	PN25	Flange	300 mm
W-MC603K-25F65	25 m ³ /h	Cooling	DN 65	PN25	Flange	300 mm
W-MC603W-40F80	40 m ³ /h	Heat	DN 80	PN25	Flange	300 mm
W-MC603K-40F80	40 m ³ /h	Cooling	DN 80	PN25	Flange	300 mm
W-MC603W-60F100	60 m ³ /h	Heat	DN 100	PN25	Flange	360 mm
W-MC603K-60F100	60 m ³ /h	Cooling	DN 100	PN25	Flange	360 mm
W-MC603W-100F100	100 m ³ /h	Heat	DN 100	PN25	Flange	360 mm
W-MC603K-100F100	100 m ³ /h	Cooling	DN 100	PN25	Flange	360 mm
W-MC603W-150F150	150 m ³ /h	Heat	DN 150	PN25	Flange	500 mm
W-MC603K-150F150	150 m ³ /h	Cooling	DN 150	PN25	Flange	500 mm
W-MC603W-250F150	250 m ³ /h	Heat	DN 150	PN25	Flange	500 mm
W-MC603K-250F150	250 m ³ /h	Cooling	DN 150	PN25	Flange	500 mm
W-MC603W-400F150	400 m ³ /h	Heat	DN 150	PN25	Flange	500 mm
W-MC603K-100F125	100 m ³ /h	Cooling	DN 125	PN25	Flange	350 mm
W-MC603W-100F125	100 m ³ /h	Heat	DN 125	PN25	Flange	350 mm
W-MC603K-400F150	400 m ³ /h	Cooling	DN 150	PN25	Flange	500 mm
W-MC603W-600F200	600 m ³ /h	Heat	DN 200	PN25	Flange	500 mm
W-MC603K-600F200	600 m ³ /h	Cooling	DN 200	PN25	Flange	500 mm
W-MC603W-1000F250	1000 m ³ /h	Heat	DN 250	PN25	Flange	600 mm
W-MC603K-1000F250	1000 m ³ /h	Cooling	DN 250	PN25	Flange	600 mm

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ACCESSORY

TYPE	DESCRIPTION
W-MC-Modbus RTU	Modbus RTU interface
W-MC-LON	LON-Bus interface
W-MC-BACnet MS/TP	BACnet MS/TP interface
W-MC-WH	Wall bracket for calculator

Water meter (compact) with volume transmitter

DIGICONTROL W-MC62...IQ

Data sheet number 83401

Ultrasonic water meter for measuring and registering water consumption. Calculator with RTC and M-Bus module according to EN 13757 with two additional pulse inputs, connection console and optical interface. Mains operation 230 V AC with extended logging and data logger. Ultrasonic flow sensor incl. 2.5 m connection cable and threaded connection parts.



TECHNICAL DATA

Voltage	<ul style="list-style-type: none"> ■ Battery supply ■ 230 V AC +15 / -30 %, 50/60 Hz ■ 24 V AC +/-50 %, 50/60 Hz
Media temperature	0.1...70 °C
Interfaces	Wireless M-bus, linkIQ
Installation position	Horizontal/vertical
Lifespan	Battery: up to 20 years
Protection class	Calculator IP65 Flow part IP68
Ambient temperature	-10...55 °C
Storage temperature	-25...+60 °C
Environmental class	Mechanical environment Class M1; Electromagnetic environment Class E1
Standards/rules/guidelines/approvals	Approvals: DK-0200-MI001-039
	Norms: OIML R49 Class B and O
	EU guidelines: MID E1 and E2, KIWA
Other remarks	Threaded version: incl. threaded connecting parts and backflow protection device in some instances

TYPE LIST

TYPE	QP	MEASURING RANGE	DIAMETER NOMINAL	PRESSURE STAGE	CONNECTION	OVERALL LENGTH
W-MC62-1,6G15IQ	1.6 m ³ /h	0.016-2.0 m ³ /h	DN 15	PN16	Thread	110 mm
W-MC62-2,5G20IQ	2.5 m ³ /h	0.025-3.1 m ³ /h	DN 20	PN16	Thread	190 mm
W-MC62-4G25IQ	20 m ³ /h	0.040-5.0 m ³ /h	DN 25	PN16	Thread	260 mm
W-MC62-6,3G25IQ	6.3 m ³ /h	0.063-7.9 m ³ /h	DN 25	PN16	Thread	260 mm
W-MC62-10G40IQ	10 m ³ /h	0.100-12.5 m ³ /h	DN 40	PN16	Thread	300 mm
W-MC62-16F50IQ	22 m ³ /h	0.160-20.0 m ³ /h	DN 50	PN25	Flange	270 mm
W-MC62-25F65IQ	25 m ³ /h	0,250-31,3 m ³ /h	DN 65	PN25	Flange	300 mm
W-MC62-40F80IQ	40 m ³ /h	0.400-50.0 m ³ /h	DN 80	PN25	Flange	300 mm

ACCESSORY

TYPE	DESCRIPTION
W-MC-Modbus RTU	Modbus RTU interface
W-MC-WH	Wall bracket for calculator
W-MC-LON	LON-Bus interface
W-MC-BACnet MS/TP	BACnet MS/TP interface