

EU DECLARATION OF CONFORMITY

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We, Kamstrup A/S declare under our sole responsibility that the product

Product name: MULTICAL® 403
Product description: Ultrasonic Heat, Cooling and Heat/Cooling meter
Type number: 403XXXXXX-XXXXX (Note 1 and Table 1 applies)
Serial number: XXXXXXXX/XX/18

Conforms to the European directives as marked below:

Electromagnetic Compatibility Directive (EMC) 2014/30/EU

Type numbers in the table applies:

Communication (Module)	Type number of meter (X = Irrelevant)
No module	403-XXXXXX-XXX00
Data + Pulse inputs (A, B)	403-XXXXXX-XXX10
Data + Pulse outputs (C, D)	403-XXXXXX-XXX11
M-Bus + Pulse inputs (A, B)	403-XXXXXX-XXX20
M-Bus + Pulse outputs (C, D)	403-XXXXXX-XXX21
M-Bus Thermal disconnect	403-XXXXXX-XXX22
Analog outputs 0/4-20 mA	403-XXXXXX-XXX40
KNX communication	403-XXXXXX-XXX42
BACnet MS/TP + Pulse inputs (A, B)	403-XXXXXX-XXX66
Modbus RTU + Pulse inputs (A, B)	403-XXXXXX-XXX67

Standards:

- EN 61000-6-1:2007 EMC Immunity for residential, commercial & light-industrial environments
- EN 61000-6-3:2007 EMC Emission for residential, commercial & light-industrial environments

Low Voltage Directive (LVD) 2014/35/EU

Standards:

- EN 61010-1:2010
- EN 62311:2008

Pressure Equipment Directive (PED)

2014/68/EU

DN sizes in the table applies:

Fluid	Group 2		
Category	4§3		I
Module	N/A		A
Maximum allowable pressure PS	25	16	25
Nominal bore	DN15-DN40	DN15-DN50	DN50-DN125
Notified body, Inspection	N/A	N/A	N/A
Notified body, Quality system ISO 9001	DNV GL Tuborg Parkvej 8, 2. DK-2900 Hellerup		

Conformity assessment procedures according to directive 2014/68/EU, Annex III.

Products that fall under Article 4§3 shall not be CE-marked according to directive 2014/68/EU.

Radio Equipment Directive (RED)

2014/53/EU

Type numbers in the table applies:

Module	Type number of meter (X = Irrelevant)
Wireless M-Bus + Pulse inputs (A, B)	403-XXXXXX-XXX30
Wireless M-Bus + Pulse outputs (C, D)	403-XXXXXX-XXX31
Kamstrup Radio + Pulse inputs (A, B)	403-XXXXXX-XXX50

Standards:

- EN 300 220-2 v.3.1.1: 2016
- EN 301 489-1 v2.1.1: 2016
- EN 301 489-3 v2.1.0: 2017
- EN 61010-1: 2010
- EN 62311: 2008

Measuring Instrument Directive (MID)

2014/32/EU

Applies for products marked with CE marking and supplementary metrology marking according to Article 21 in directive 2014/32/EU.

Standards:

- EN 1434-4:2007
- Welmec 7.2

Type certificate number: DK-0200-MI004-037

Notified Body, Module D Certificate:

FORCE Certification A/S

EU Notified Body number: 0200

Park Allé 345, 2605 Brøndby

Denmark

RoHS Directive (Restriction of Hazardous Substances)

2011/65/EU

References:

Kamstrup procedure 5509-016, linked with supplier statement in 5509-045

Date: 2017-12-22, Skanderborg**Quality Assurance Manager:** _____

Viggo Andersen

Note 1. The type number of the meter

The type number consists of two parts a 9-digit static part and a 5-digit dynamic part. The static part of the type number is printed on the front of the meter, while the dynamic part of the type number can be viewed in the display.

To evoke the dynamic part of the type number, press the primary key and hold it down until the text 2 – TECH becomes visible in the display. Release the primary key briefly and subsequently use it to shift forward until index number 2-018-00 is visible in the display. Now use the secondary key to shift forward until index number 2-018-09 is visible in the display, release the key and the dynamic part of the type number will be visible in the display with reference N° 21 in the upper right corner.



Primary key



Secondary key

Table 1 – Type number

				Static data 403-XXXXXX -		Dynamic data XXXXX	
				Written on the meter's front		Can be displayed	
Type 403-				□	□□	□	□□
Sensor connection							
Pt100 Heat meter				V			
Pt500 Heat meter				W			
Pt500 Cooling meter and heat/cooling meter				T			
Flow sensor	Connection	Length [mm]	Dynamic range				
q _p [m ³ /h]							
0.6	G¾B (R½)	110	100:1		10		
0.6	G1B (R¾)	190	100:1		30		
1.5	G¾B (R½)	110	100:1		40		
1.5	G¾B (R½)	165	100:1		50		
1.5	G1B (R¾)	130	100:1		70		
1.5	G1B (R¾)	165	100:1	(130 mm with extension)	80		
1.5	G1B (R¾)	190	100:1		90		
2.5	G1B (R¾)	130	100:1		A0		
2.5	G1B (R¾)	190	100:1		B0		
3.5	G5/4B (R1)	260	100:1		D0		
6.0	G5/4B (R1)	260	100:1		F0		
6.0	DN25	260	100:1		G0		
10	G2B (R1½)	300	100:1		H0		
10	DN40	300	100:1		J0		
15	DN50	270	100:1		K0		
Meter type							
Heat meter (MID module B)							1
Heat meter (MID module B+D)							2
Heat/cooling meter (MID modules B+D & TS+DK268)							3
Heat meter, National approvals							4
Cooling meter (TS27.02+DK268)							5
Heat/cooling meter							6
Volume meter							7
Country code							
Country code							XX
Sensor pair (Pt500)	Length [mm]	Diameter ø [mm]	Cable length [m]				
No sensor pair	-	-	-				00
Short direct sensor pair	27.5		1.5				11
Short direct sensor pair	27.5		3.0				12
Pocket sensor pair		5.8	1.5				31
Pocket sensor pair		5.8	3.0				32
Supply							
No supply							0
Battery, 1xD-cell							2
230 VAC Supply							7
24 VAC Supply							8
Battery, 2xA-cells							9
Modules							
No module							00
Data + 2 pulse inputs (A, B)							10
Data + 2 pulse outputs (C, D)							11
M-Bus, configurable + 2 pulse inputs (A, B)							20
M-Bus, configurable + 2 pulse outputs (C, D)							21
Wireless M-Bus, EU, configurable, 868 MHz + 2 pulse inputs (A, B)							30
Wireless M-Bus, EU, configurable, 868 MHz + 2 pulse outputs (C, D)							31
M-Bus Thermal disconnect							22
Analog outputs 0/4-20 mA							40
KNX Communication							42
Kamstrup Radio + 2 pulse inputs (A, B)							50
BACnet MS/TP + Pulse inputs (A, B)							66
Modbus RTU + Pulse inputs (A, B)							67