

# 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/17

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
LonWorks FTT-10A + Pulse inputs (A, B)	403-XXXXXX-XXX60
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:

<b>Fluid</b>	Group 2		
<b>Category</b>	4§3		I
<b>Module</b>	N/A		A
<b>Maximum allowable pressure PS</b>	25	16	25
<b>Nominal bore</b>	DN15-DN40	DN15-DN50	DN50-DN125
<b>Notified body, Inspection</b>	N/A	N/A	N/A
<b>Notified body, Quality system ISO 9001</b>	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 & Telecommunication Terminal Equipment Directive (R&TTE)**

1999/5/EC

Type numbers in the table applies:

<b>Module</b>	<b>Type number of meter (X = Irrelevant)</b>
Wireless M-Bus + Pulse inputs (A, B)	403-XXXXXX-XXX30

Standards:

- EN 300 220-2 v.2.4.1 : 2012
- EN 301 489-1 v1.9.2 : 2011
- EN 301 489-3 v1.6.1 : 2013
- 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:** 2016-12-23, 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		Dynamic data		
				403-XXXXXX -		XXXXX		
				Written on the meter's front				Can be displayed
				Type 403-				
<b>Sensor connection</b>								
Pt100 Heat meter				V				
Pt500 Heat meter				W				
Pt500 Cooling meter and heat/cooling meter				T				
<b>Flow sensor</b>	Connection	Length [mm]	Dynamic range					
q <sub>p</sub> [m <sup>3</sup> /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			
<b>Meter type</b>								
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	
<b>Country code</b>								
Country code						XX		
<b>Sensor pair (Pt500)</b>	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	
<b>Supply</b>								
No supply							0	
Battery, 1xD-cell							2	
230 VAC Supply							7	
24 VAC Supply							8	
Battery, 2xA-cells							9	
<b>Modules</b>								
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	
M-Bus Thermal disconnect							22	
Analog outputs 0/4-20 mA							40	
LonWorks FTT-10A + Pulse inputs (A, B)							60	
BACnet MS/TP + Pulse inputs (A, B)							66	
Modbus RTU + Pulse inputs (A, B)							67	