

EU DECLARATION OF CONFORMITY

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

Product name: MULTICAL® 302
Product description: Ultrasonic Heat, Cooling and Heat/Cooling meter
Type number: 302XXXXXXXXXX (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 communication	302-X00XXXXXXXX
M-Bus with 1.5 m cable	302-X20XXXXXXXX
M-Bus with 2.0 m cable	302-X21XXXXXXXX

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	
Module	N/A	
Maximum allowable pressure PS	25	16
Nominal bore	DN15-DN40	DN15-DN50
Notified body, Inspection	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 868 MHz (Mode C1 or T1 OMS)	302-X30XXXXXXXX

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-MI004-031

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

Table 1 – Type number

			Type 302-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Temperature sensor connection										
Pt500 sensor input			T							
Communication										
No communication					00					
M-Bus (with 1.5 m factory mounted cable)					20					
M-Bus (with 2.0 m factory mounted cable)					21					
Wireless M-Bus, 868 MHz (configurable mode C1 or T1 OMS)					30					
Supply										
6 year battery, Normal Response meter								1		
12 year battery, Normal Response meter								2		
6 year battery, Fast Response meter								3		
Temperature sensor										
Pt500, ø5.2 mm temperature sensors with cable length 1.5 m and composite									Q9	
Pt500, ø5.2 mm temperature sensors with cable length 1.5 m and									QF	
Flow sensor										
qp [m ³ /h]	Connection	Length [mm]								
0.6	G $\frac{3}{4}$ B (R $\frac{1}{2}$) DN15	110							10	
							With extension to 130	11		
							With extension to 165	12		
1.5	G $\frac{3}{4}$ B (R $\frac{1}{2}$) DN15	110							40	
							With extension to 130	41		
							With extension to 165	42		
1.5	G1B (R $\frac{3}{4}$) DN20	130							70	
							With extension to 190	71		
							With extension to 220	72		
2.5	G1B (R $\frac{3}{4}$) DN20	130							A0	
							With extension to 190	A1		
							With extension to 220	A2		
Meter type										
Heat meter (MID module B+D)							θ_{hc} = OFF			2
Heat/cooling meter (MID module B+D & TS27.02+DK268)							θ_{hc} = OFF			3
Heat meter (National approval)							θ_{hc} = OFF			4
Cooling meter (TS27.02+DK268)							θ_{hc} = OFF			5
Heat/cooling meter							θ_{hc} = ON			6
Country code										
Country code										XX