

## EU DECLARATION OF CONFORMITY

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

**Product name:** MULTICAL® 801

**Product description:** Calculator for Heat, Cooling and Heat/Cooling applications

**Type number:** 67XXXXXXXXXX (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	67-X0XXXXXXXXXX
SIOX module (Auto detect Baud)	67-XMXXXXXXXXXX
M-Bus (Alternative registers)	67-XPXXXXXXXXXX
M-Bus module with MCIII data package	67-XQXXXXXXXXXX
M-Bus	67-XVXXXXXXXXXX
LonWorks, FTT-10A	67-XYXXXXXXXXXX
Ethernet/IP module (IP201)	67-XTXXXXXXXXXX
No module	67-XX00XXXXXXXXXX
M-Bus + pulse inputs	67-XX20XXXXXXXXXX
Data logger + 4-20 mA inputs + pulse inputs	67-XX22XXXXXXXXXX
LonWorks, FTT-10A + pulse inputs	67-XX24XXXXXXXXXX
M-Bus (Alt. reg.) + pulse inputs	67-XX27XXXXXXXXXX
M-Bus module with MC-III data package + pulse inputs	67-XX29XXXXXXXXXX
Metasys N2 (RS485) + pulse inputs	67-XX62XXXXXXXXXX
SIOX module (Auto detect Baud rate)	67-XX64XXXXXXXXXX
BACnet MS/TP + pules inputs	67-XX66XXXXXXXXXX
Modbus RTU + pulse inputs	67-XX67XXXXXXXXXX

Standards:

- EN 61000-6-2:2005 EMC Immunity for 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

**Radio Equipment Directive (RED)**

2014/53/EU

Type numbers in the table applies:

Communication (Module)	Type number of meter (X = Irrelevant)
GSM/GPRS module	67-XZXXXXXXXXXX
3G GSM/GPRS module (GSM8H)	67-XUXXXXXXXXXX
Wireless M-Bus Mode C1 + pulse inputs	67-XX30XXXXXXXX
Wireless M-Bus Mode T1 OMS 15 min. (Ind. Key)	67-XX31XXXXXXXX
Wireless M-Bus Mode C1 Alt. reg. (Ind. key) + pulse in	67-XX35XXXXXXXX
Wireless M-Bus, Mode C1 Fixed Network (Ind. Key)	67-XX38XXXXXXXX
ZigBee 2.4 GHz int.ant. + pulse inputs	67-XX60XXXXXXXX

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-MI004-009

**Notified Body, Module D Certificate:**

FORCE Certification A/S

EU Notified Body number: 0200

Park Allé 345, 2605 Brøndby

Denmark



Table 1 – Type number

MULTICAL® 801			Type 67-	□	□	□□	□	□	□	□	□□
<b>Sensor connection</b>											
Pt100	4-wire (T1-T2-T3)	No analogue outputs	F								
Pt500	4-wire (T1-T2-T3)	No analogue outputs	G								
Pt100	4-wire (T1-T2-T3)	4 analogue outputs	K								
Pt500	4-wire (T1-T2-T3)	4 analogue outputs	L								
<b>Module 2</b> (VA and VB are <u>not</u> available for module position 2)											
No module				0							
SIOX module (Auto detect Baud)				M							
M-Bus (Alternative registers)				P							
M-Bus module with MCIII data package				Q							
M-Bus				V							
RadioRouter				W							
LonWorks, FTT-10A				Y							
GSM/GPRS module				Z							
3G GSM/GPRS module (GSM8H)				U							
Ethernet/IP module (IP201)				T							
<b>Module 1</b> (VA and VB are available for module position 1)											
No module					00						
M-Bus + pulse inputs					20						
RadioRouter + pulse inputs					21						
Data logger + 4-20 mA inputs + pulse inputs					22						
LonWorks, FTT-10A + pulse inputs					24						
M-Bus (Alt. reg.) + pulse inputs					27						
M-Bus module with MC-III data package + pulse inputs					29						
Wireless M-Bus Mode C1 + pulse inputs					30						
Wireless M-Bus Mode T1 OMS 15 min. (Ind. Key)					31						
Wireless M-Bus Mode C1 Alt. reg. (Individual key) + pulse inputs					35						
Wireless M-Bus, Mode C1 Fixed Network (Ind. Key)					38						
ZigBee 2.4 GHz int. ant. + pulse inputs					60						
Metasys N2 (RS485) + pulse inputs					62						
SIOX module (Auto detect Baud rate)					64						
BACnet MS/TP + pules inputs					66						
Modbus RTU + pulse inputs					67						
High Power Radio Router + pulse inputs					84						
<b>Supply</b>											
230 VAC supply								7			
24 VAC supply								8			
<b>Pt500 sensor pair (2-wire sensors)</b>											
No sensor pair									0		
Pocket sensor pair with 1.5 m cable									A		
Pocket sensor pair with 3.0 m cable									B		
Pocket sensor pair with 5 m cable									C		
Pocket sensor pair with 10 m cable									D		
Short direct sensor pair with 1.5 m cable									F		
Short direct sensor pair with 3.0 m cable									G		
Set of 3 pocket sensors with 1.5 m cable									L		
Set of 3 short direct sensors with 1.5 m cable									Q3		
<b>Flow sensor/pick-up unit</b>											
1 ULTRAFLOW® included										1	
2 nos. ULTRAFLOW® included										2	
Prepared for 1 ULTRAFLOW®										7	
Prepared for 2 nos. (identical) ULTRAFLOW®										8	
Prepared for meters w/Reed switch output (both V1 & V2)										L	
Prepared for foreign flow meter with passive/active pulses										N	
<b>Meter type</b>											
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, hot water											7
Volume meter, cooling water											8
Energy meter											9
<b>Delivery code (language on label etc.)</b>											XX