

EU DECLARATION OF CONFORMITY

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

Product name: MULTICAL® 602
Product description: Calculator for Heat, Cooling and Heat/Cooling applications
Type number: 602XXXXXXXXXX (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	602-X0XXXXXXXXXX
RTC + Δ Energy + Hourly data logger	602-X2XXXXXXXXXX
RTC + PQ or Δt limiter + Hourly data logger	602-X3XXXXXXXXXX
RTC + data output + Hourly data logger	602-X5XXXXXXXXXX
RTC + M-Bus	602-X7XXXXXXXXXX
RTC + Δ Volume + Hourly data logger	602-X9XXXXXXXXXX
RTC + 2 pulse outputs + Hourly data logger + Scheduler	602-XAXXXXXXXXXX
RTC + 2 pulse outputs + Programmable data logger	602-XBXXXXXXXXXX
2 pulse outputs CE and CV	602-XCXXXXXXXXXX
No module	602-XX00XXXXXXXX
Data + Pulse inputs	602-XX10XXXXXXXX
M-Bus + Pulse inputs	602-XX20XXXXXXXX
Prog. data logger + RTC + 4...20 mA inputs + Pulse in	602-XX22XXXXXXXX
0/4...20 mA outputs	602-XX23XXXXXXXX
LonWorks + Pulse inputs	602-XX24XXXXXXXX
M-Bus module with alternative registers + Pulse in	602-XX27XXXXXXXX
M-Bus module with medium data package + Pulse in	602-XX28XXXXXXXX
M-Bus module with MC-III data package + Pulse in	602-XX29XXXXXXXX
Metasys N2 (RS485) + Pulse inputs	602-XX62XXXXXXXX
SIOX module (Auto detect Baud rate)	602-XX64XXXXXXXX
BACnet MS/TP + Pulse inputs	602-XX66XXXXXXXX
ModBus RTU + Pulse inputs	602-XX67XXXXXXXX
Ethernet/IP (IP201)	602-XX82XXXXXXXX

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)
Wireless M-Bus Mode C1 + Pulse inputs (Ind. Key)	602-XX 30 XXXXXXXX
Wireless M-Bus, Mode T1 OMS 15 min. (Ind. Key)	602-XX 31 XXXXXXXX
Wireless M-Bus Mode C1 Alt. registers + Pulse inputs	602-XX 35 XXXXXXXX
Wireless M-Bus, Mode T1 OMS 16 sec. (Ind. Key)	602-XX 36 XXXXXXXX
Wireless M-Bus, Mode C1 Fixed Network (Ind. Key)	602-XX 38 XXXXXXXX
Wireless M-Bus, Mode C1 PDO (Ind. Key)	602-XX 39 XXXXXXXX
ZigBee 2.4 GHz internal antenna + Pulse inputs	602-XX 60 XXXXXXXX
GSM/GPRS (GSM6H)	602-XX 80 XXXXXXXX
3G GSM/GPRS (GSM8H)	602-XX 81 XXXXXXXX

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-MI004-020

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

Sample

Table 1 – Type number

	Type 602-	□	□	□□	□	□□	□	□	□□
Sensor connection									
Pt100 2-wire (T1-T2)		A							
Pt500 4-wire (T1-T2)		B							
Pt500 2-wire (T1-T2-T3)		C							
Pt500 4-wire (T1-T2) w/24 V pulse inputs		D							
Top module									
No module			0						
ΔEnergy calculation + hourly data logger			2						
PQ or Δt-limiter + hourly data logger			3						
Data output + hourly data logger			5						
M-Bus			7						
ΔVolume + hourly data logger			9						
2 pulse outputs for CE and CV + hourly data logger + scheduler			A						
RTC + 2 pulse outputs for CE and CV + prog. data logger			B						
2 Pulse outputs CE and CV			C						
Base module									
No module				00					
Data + pulse inputs				10					
M-Bus + pulse inputs				20					
Radio Router + pulse inputs				21					
Prog. data logger + RTC + 4...20 mA inputs + pulse inputs				22					
0/4...20 mA outputs				23					
LonWorks + pulse inputs				24					
Radio + pulse inputs (internal antenna) 434 or 444 MHz				25					
Radio + pulse inputs (external antenna connection) 434 or 444 MHz				26					
M-Bus module with alternative registers + pulse inputs				27					
M-Bus module with medium data package + pulse inputs				28					
M-Bus module with MC-III data package + pulse inputs				29					
Wireless M-Bus, Mode C1 + pulse inputs (Ind. Key)				30					
Wireless M-Bus, Mode T1 OMS 15 min. (Ind. Key)				31					
Wireless M-Bus, Mode C1 Alt. reg. + pulse inputs				35					
Wireless M-Bus, Mode T1 OMS 16 sec. (Ind. Key)				36					
Wireless M-Bus, Mode C1 Fixed Network (Ind. Key)				38					
Wireless M-Bus, Mode C1 PDO (Ind. Key)				39					
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 + pulse inputs				66					
Modbus RTU + pulse inputs				67					
GSM/GPRS (GSM6H)				80					
3G GSM/GPRS module (GSM8H)				81					
Ethernet/IP (IP201)				82					
High Power Radio Router + pulse inputs				84					
Supply									
No supply					0				
Battery, D-cell					2				
230 VAC high power isolated SMPS					3				
24 VAC high power isolated SMPS					4				
230 VAC isolated linear supply					7				
24 VAC isolated linear supply					8				
Pt500 sensor set									
No sensor set						00			
Pocket sensor set w/1.5 m cable						0A			
Pocket sensor set w/3.0 m cable						0B			
Pocket sensor set w/5 m cable						0C			
Pocket sensor set w/10 m cable						0D			
Short direct sensor set w/1.5 m cable						0F			
Short direct sensor set w/3.0 m cable						0G			
3 Pocket sensors in sets w/1.5 m cable						0L			
3 Short direct sensors in sets w/1.5 m cable						Q3			
Flow sensor /pick-up unit									
Supplied w/1 pcs. ULTRAFLOW®							1		
Supplied w/2 pcs. (identical) ULTRAFLOW®							2		
Prepared for 1 pcs. ULTRAFLOW®							7		
Prepared for 2 pcs. (identical) ULTRAFLOW®							8		
Prepared for meters w/electronic pulse output							K		
Prepared for meters w/Reed switch output (Both V1 and V2)							L		
Prepared for meters w/24 V active pulses							M		
Meter type									
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	
Country code (language on label etc.)									
									XX