

Wireless M-Bus System

for Kamstrup heat, cooling, heat/cooling and water meters

DATA SHEET

- **Wireless M-Bus System for reading Kamstrup MULTICAL® meters**
- **Commissioning time only 15 minutes**
- **Up to 800 meters in one system**



Application

A Wireless M-Bus System is used for quick and easy wireless reading of Kamstrup MULTICAL® meters fitted with a Wireless M-Bus Module.

In its simplest form, a Wireless M-Bus System consists of a MULTICAL® meter with Wireless M-Bus communication, a Wireless M-Bus Reader and a PC program for configuration and reading.

The PC program is freely downloadable from Kamstrup's website.

Each meter is automatically created in the PC program by means of the enclosed meter file, and an installation address is entered, if any. If the system includes many meters or more than one Wireless M-Bus Reader is used, the meters can be grouped and linked to a specific Wireless M-Bus Reader.

The meter list is transferred to the Wireless M-Bus Reader when it is connected to the PC, or wirelessly when it is connected to a USB power supply.

The power supply can be a Kamstrup Power Pack or a different type of USB power supply.

If more than one Wireless M-Bus Reader is used, it will be an advantage to have one Wireless M-Bus Reader permanently mounted in the PC. In this way, meter lists and reading data will be wirelessly exchanged between each Wireless M-Bus Reader and the PC program. The wireless data exchange is carried out fast and automatically.

In order to save power, the Wireless M-Bus Reader has a built-in movement sensor, which switches it off automatically when not in motion, or when all meters have been read.

Reading of meters

The Wireless M-Bus Reader is connected to a USB power source, e.g. a Kamstrup Power Pack, and is briefly moved.

A green and an orange LED inform you about the current reading status.

Handling meter data

In the PC program, you can choose between viewing the data of one individual meter or the data of all meters in a total view.

Data can be exported in XLS format to spreadsheet programs, in CSV format to billing programs or to a file in PDF format. Furthermore, data can be sent to a printer.

Update

Wireless M-Bus Reader can be updated with new functionality via the PC program and is thus prepared for e.g. future meter types.



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Technical data

PC

Computer requirements

Windows® XP - 32 bit, Windows® 7 - 32 bit + 64 bit
 1.6 GHz or quicker processor
 1 GB RAM or more
 20 GB free hard disk or more

System specifications

Number of meters on each Wireless M-Bus Reader
 – with internal antenna 200
 – with external antenna 800
 Data export XLS, CSV, DFF, PDF
 Radio communication Wireless M-Bus, Mode C1 acc. to prEN 13757
 Frequency 868 MHz area
 Data security Advanced encryption AES 128
 Software update Via Kamstrup web
 Languages in PC program GB, DE, DK, SE



Meters

Supported meter types

Heat, cooling and heat/cooling MULTICAL® 402, MULTICAL® 601, MULTICAL® 602
 Water MULTICAL® 61, MULTICAL® 21

Read registers in heat, cooling and heat/cooling meters

Energy is displayed in kWh, MWh, GJ

Meter type	Current data	Monthly data
MULTICAL® 601/602	Heat energy E1 and/or cooling energy E3	Heat energy E1 and/or cooling energy E3
	Energy E8 (m³ x T1)	Volume V1
	Energy E9 (m³ x T2)	InA
	Volume V1	InB
	InA	Date
	InB	
	Flow	
	T1	
	T2	
	Info	
	Operating hour counter	
	Date	
	MULTICAL® 402	Heat energy E1 and/or cooling energy E3
Energy E8 (m³ x T1)		Volume V1
Energy E9 (m³ x T2)		Date
Volume V1		
Info		
Flow		
T1		
T2		
Operating hour counter		
Date		

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Read registers in water meters

Meter type	Current data	Monthly data	Monthly data or peak data
MULTICAL® 61	Volume V1	Volume	
	InA	InA	
	InB	InB	
	Info	Date	
	Operating hour counter		
	Date		
MULTICAL® 21	Volume V1		Volume V1 or max flow
	Info		
	Operating hour counter		
	Date		

Modules

Wireless M-Bus module	Dimensions LxWxD	Operating temperature range	Markings
for MULTICAL® 402	64 x 42 x 12 mm	-10 to +60°C	CE
			
for MULTICAL® 601/602 and MULTICAL® 61	90 x 44 x 16 mm	-10 to +60°C	CE
			

USB

Wireless M-Bus Reader	Dimensions LxWxD	Weight	Operating temperature range	Markings
Internal antenna	79 x 23 x 14 mm	15 g	-10 to +60°C	CE
				
Eksternal antenna	84 x 23 x 14 mm	15 g	-10 to +60°C	CE
				

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Accessories

External antenna for Wireless M-Bus

Frequency	868 MHz area
Amplification	3 dB
Weight	300 g
Height	35.5 cm (incl. magnet foot)
Diameter	ø60
Cable length	3.5 m



Power Pack

Output voltage	5.5 V
Battery	3,000 mAh lithium polymer
Mini USB charging cable	1.5 m
Dimensions LxWxD	113 x 57 x 14 mm
Weight	100 g
Operating temperature range	-10 to +45°C



Ordering numbers

USB-	Type	External antenna	Power supply
	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Type			
Wireless M-Bus Reader C1 with internal antenna	03		
Wireless M-Bus Reader C1 for external antenna	04		
External antenna			
No magnetic antenna		0	
Magnetic roof antenna for Wireless M-Bus		2	
Power supply			
None			0
Power Pack			1

Accessories

Type no.	Description
6699 466	Magnet foot – 3.5 m antenna cable, SMA connector
6697 467	Antenna whip, 868 MHz