

Data sheet

## RF M-Bus Converter II

- Universal converter for consumption meters with M-Bus
- Converts M-Bus into radio
- Built-in RTC with 5 day back-up
- Built-in hourly logger and event logger
- Autodetection of radio frequency on 2 radio channels
- Autodetection of baudrate for M-Bus communication
- Transmitting power configurable up to 500 mW
- Built-in router functionality
- Built-in radio antenna and optional external antenna connection
- Optional connection of GSM modem
- Complies with the standards EN 13757



## Application

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RF M-Bus Converter II is a universal converter for consumption meters, equipped with M-Bus. It converts M-Bus into radio and integrates meters with M-Bus in a radio system.

The universal converter is used for all makes of heat, electricity and water meters with M-Bus complying with EN13757, including Kamstrup, SVM, Actaris, Enermet and Sappel.

The universal converter has a built-in real time clock (RTC) and time stamps all data.

It reads hourly data and event logs from the connected meter and functions at the same time as supply unit for the meter's M-Bus module.

The converter is equipped with two radio channels and detects automatically, if communication is HI-power or LO-power radio.

In the same way the converter automatically detects the baudrate of the M-Bus communication between meter and converter.

RF M-Bus Converter II can be used in radio networks, drive-by systems where data are read via hand-held terminal and in connection with point-to-point reading via GSM modem.

## Loggable data (if available in the connected meter)

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Energy

Volume

Hour counter

$T_{\text{flow}}$

$T_{\text{return}}$

$\Delta T$

Actual power

Actual flow

This data is always time stamped by the built-in RTC (Real Time Clock) of the RF M-Bus Converter II.

## Technical data

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Dimensions	147x100x45 mm
Supply	230 VAC
Consumption	< 1W
Transmitting power	Up to 500 mW (depending on country)
Logging depth	1080 registers = 45 days of hourly data
Frequency range	434 MHz range (licence free) 444 MHz range (licence demanding)

## Standards

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EN 13757-3 (M-Bus protocol)  
EN 13757-5 (Network relaying)

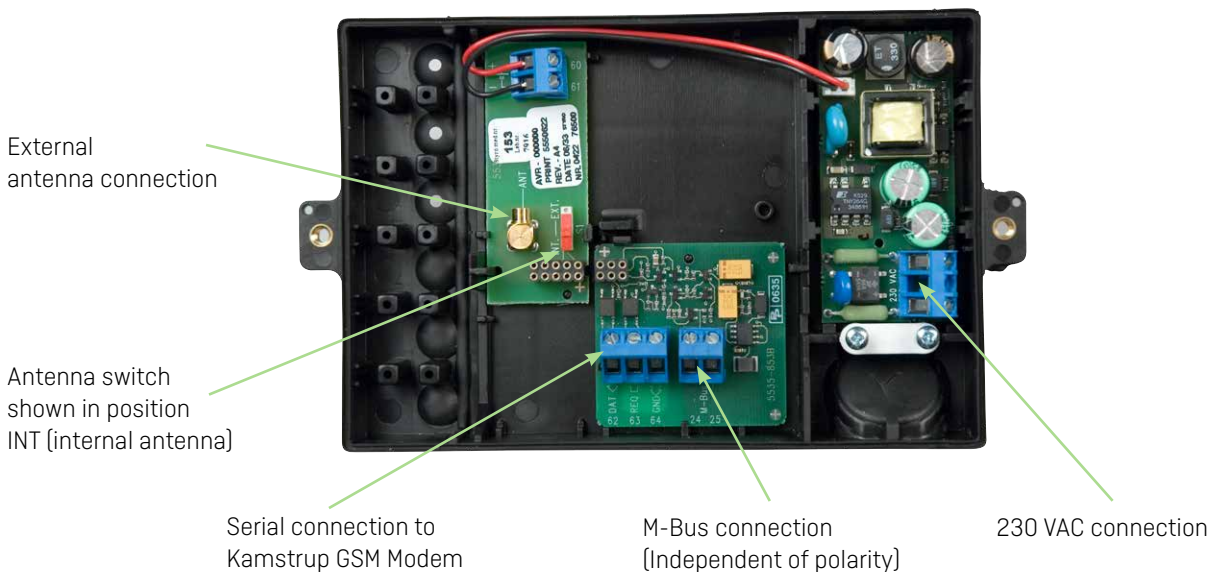
## Markings and approvals

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CE marking  
R & TTE directive  
EN 300 220 – Class 2  
EN 301 489, EN60 950, EN62 311

## Connections

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## Ordering options

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### High power systems

6699-	X	X	X	X	XXX
<b>Network Components</b>					
RF Concentrator – High Power, NET 1, Combi	K				
RF M-Bus Converter II, NET 0	L				
RF M-Bus Converter II, NET 1, Combi	M				
RF Concentrator – High Power, NET 0	N				
<b>Module</b>					
No module		0			
Data input for GSM 9600		1			
Data module/Westermo 4-wire		6			
IP 201 module		A			
Data /Power Converter for RF M-Bus Converter II		B			
<b>Supply</b>					
230 VAC – High Power			5		
230 VAC – High Power for RF M-Bus Converter II			7		
<b>Bracket</b>					
Bracket for thin antenna cable				1	
Bracket for thick antenna cable				2	
<b>Optional frequency code</b>					
CH					318
SE					327
SE					328
NO					339
DK					349
FI					358
FI					359

Please contact Kamstrup A/S for further information

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