

# RadioRouter module for MULTICAL®

**Automatic radio reading of MULTICAL® energy meters**

**Built-in router functionality**

**Autodetection of radio frequency on two channels**

**Built-in radio antenna and external antenna connection**

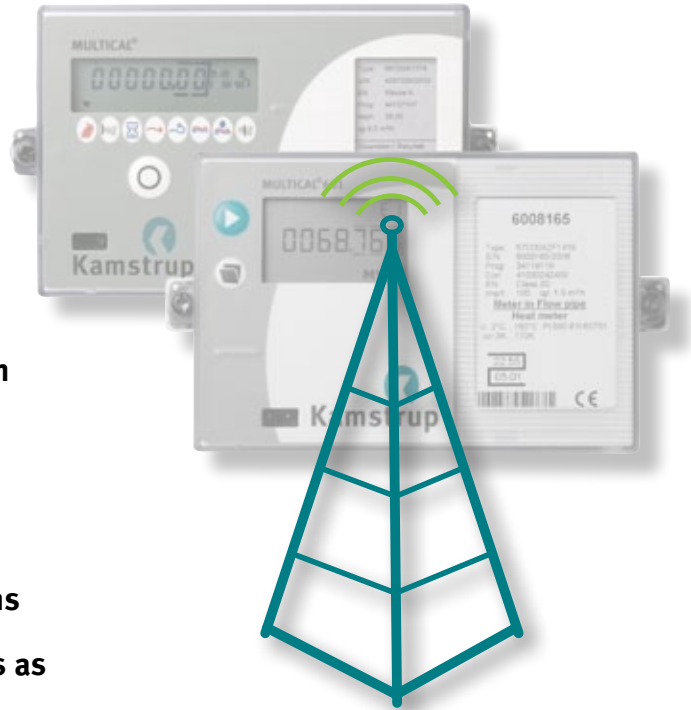
**Two extra pulse inputs for connection of water and electricity meters**

**Plug-and-play**

**Supplied by the meter**

**Supports leakage and bursting alarms**

**Data from the meter is read in as less as one second**



## Application

The RadioRouter module is mounted in a MULTICAL® energy meter and functions as a router unit in a radio network. In addition, the module functions as an ordinary radio module and can be read via hand-held terminal.

The RadioRouter module can be installed in a MULTICAL® without configuration and is ready for communication in less than 30 seconds after mouting.

The reading system then determines which data should be read in the RadioRouter module. Data are transferred once/day from MULTICAL® to the memory of the RadioRouter module.

The RadioRouter module is equipped with two radio channels and detects automatically, whether communication is HI-power or LO-power. This provides good stability and high security when transferring data. The built-in router functionality provides you with the possibility of building up a radio network between the individual meters and the central RF Concentrator controlling the radio communications to and from the meters.

The RadioRouter module is delivered with extra pulse inputs for water or electricity meters.

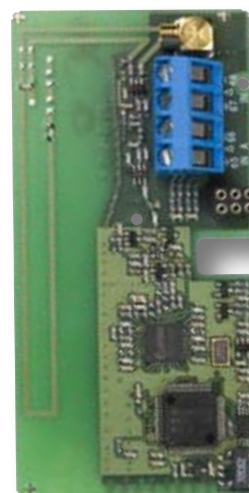
Kamstrup's radio system is extremely robust to interference.



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## Technical data

Supply	Supplied by the meter which must be mains supplied (24/230 VAC)
Range	Up to 350 meters With external antenna – up to 1,000 meters.
Frequency band	Is available for licence free and licence demanding frequencies:  434 MHz range (licence free) 444 MHz range (licence demanding)
Output power	10 mW on both radio channels.
Reading period	Just one second for short data package containing billing data.



## Mechanical data

Dimensions	45 x 90 mm
Ambient temperature	-40 - +60° C

## Markings and approvals

CE marking	
EN 1434 approval	
R&TTE directive:	EN 300 220 – class 2 EN 301 489

## Ordering

Description	Article no.
RadioRouter module for MULTICAL® 66	660K 000 3XX
RadioRouter module for MULTICAL® 601	6700 2100 03XX
– frequency codes	319 EU 349 DK
External triangle antenna, with 1.5 meter antenna cable	6699 407
External triangle antenna, without antenna cable	6699 408
Converter box for external triangle antenna, without antenna cable	6699 417
Antenna cable for external triangle antenna, without antenna cable	6699 460