

Data sheet

## High Power RadioRouter module

for MULTICAL® 801

- Automatic radio reading of MULTICAL® 801
- High transmission power
- 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
- Supports leakage and bursting alarms
- Data from the meter is read in as little as one second



## Application

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The High Power RadioRouter module is mounted in a MULTICAL® 801 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 the hand-held reading systems (USB Meter Reader and MULTITERM Pro hand-held terminal).

The module can be installed in a MULTICAL® 801 without configuration and is ready for communication in less than 30 seconds after mouting.

The high transmission power requires a high-power power supply, which is easily mounted and connected in MULTICAL® 801.

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

The High Power RadioRouter module is equipped with two radio channels and detects automatically whether communication is High Power or Low Power. Channel 1 (High Power) is typically used for communication between High Power radio network units, whereas channel 2 (Low Power) is used for collecting data from e.g. a battery supplied water meter.

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 High Power RadioRouter module is delivered with extra pulse inputs for water or electricity meters and with internal antenna and connection for external antenna.

Kamstrup's radio system is extremely robust to interference.

## Technical data

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### Electrical data

Supply High Power power supply 24/230 VAC



### Range

- channel 1 (High Power) Urban areas up to 350 m  
Rural areas up to 5,000 m
- channel 2 (Low Power) Up to 200 m

### Frequency band

Is available for licence free and licence demanding frequencies:  
434 MHz range (licence free)  
444 MHz range (licence demanding)

### Output power

Up to 500 mW on licence demanding frequencies (High Power)  
10 mW on the licence free frequency (EU) (Low Power)

### 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

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

## Ordering

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### Description

High Power RadioRouter module for MULTICAL® 801  
- frequency codes:

### Type number

670084000**3XX**.801  
318 CH  
319 EU  
327 SE2  
328 SE  
339 NO  
348 DK2  
349 DK  
359 FI

External triangle antenna, with 2.5 meter antenna cable	6699 407
External triangle antenna, without antenna cable	6699 408
Converter box for external triangle antenna, without antenna cable	6699 417
Cavity wall antenna with 2.5 meter antenna cable	6699 442
Antenna cable for external triangle antenna, without antenna cable (50 meters)	6699 460

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