

Data sheet

Wireless M-Bus module

C mode for MULTICAL® 601, 801, 61

- Wireless reading every 16 seconds
- Long battery lifetime
- Stable and fast reading
- Unlicensed European frequency
- Standardised radio protocol
- Internal antenna and external antenna connection



Application

The Wireless M-Bus module is designed for use in Kamstrup's heat, cooling and combined heat/cooling meters MULTICAL® 601 and MULTICAL® 801 and in the water meter MULTICAL® 61.

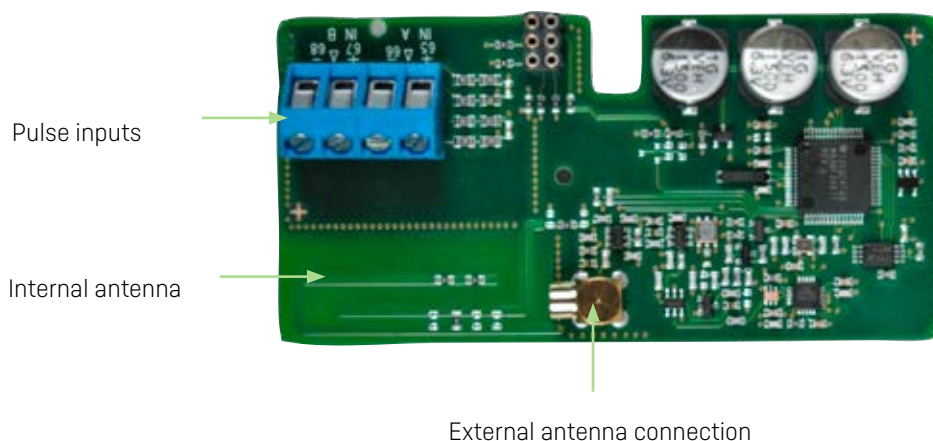
The module is available in 2 variants:

- Standard registers with focus on battery lifetime
- Alternative registers with focus on functionality

The module automatically finds the meter type in which it is installed and is ready for communication without further configuration within 16 seconds.

Even though the module is designed for hand-held solutions, it is also prepared for forming part of network solutions such as a Radio Link Network.

Module



Technical data

| | |
|------------------------|--------------------------------------------------|
| Frequency | 868.95 MHz [EU licence-free area 868-870 MHz] |
| Communication | Wireless M-Bus, C mode, one-way communication |
| Standard | EN13757-4: 2013 |
| Transmission interval | 16 seconds |
| Transmission strength | 10 mW |
| Battery lifetime | up to 10 years |
| Range | |
| – internal antenna | Up to 200 meters |
| – external antenna | Up to 500 meters |
| Update interval [data] | Every 10 minutes |

Mechanical data

| | |
|------------------------|-----------------|
| Dimensions [L X W x D] | 90 x 44 x 16 mm |
| Temperature range | -40°C...+ 70°C |

Markings

| | |
|-----------|------------------------------------------------------|
| R&TTE | EN300 220 – class 2 EN301 489, EN60 950, EN62 311 |
| CE marked | |

Wireless M-Bus module, standard registers

Data telegram

| Current data | MULTICAL® 601/801 | MULTICAL® 61 |
|-----------------------------------------|-------------------|--------------|
| Serial number | ✓ | ✓ |
| Heat energy E1 and/or cooling energy E3 | ✓ | |
| Energy E8 m ³ x T1 | ✓ | |
| Energy E9 m ³ x T2 | ✓ | |
| Volume V1 | ✓ | ✓ |
| In A | ✓ | ✓ |
| In B | ✓ | ✓ |
| Flow | ✓ | |
| T1 | ✓ | |
| T2 | ✓ | |
| Yearly max power | | |
| TA2 | | |
| TA3 | | |
| Info code | ✓ | ✓ |
| Operating hour counter | ✓ | ✓ |
| Date | ✓ | ✓ |
| Monthly data | | |
| Heat energy E1 and/or cooling energy E3 | ✓ | |
| Volume V1 | ✓ | ✓ |
| In A | ✓ | ✓ |
| In B | ✓ | ✓ |
| Date | ✓ | ✓ |

Ordering

Description

Wireless M-Bus module, standard registers
External antenna, mini triangle antenna, 2.5 m cable

Type No.

6700**30**000000
6699 448

Wireless M-Bus module, alternative registers

Data telegram

| Current data | MULTICAL® 601/801 | MULTICAL® 61 |
|-----------------------------------------|-------------------|--------------|
| Serial number | ✓ | ✓ |
| Heat energy E1 and/or cooling energy E3 | ✓ | |
| Energy E8 m ³ x T1 | ✓ | |
| Energy E9 m ³ x T2 | ✓ | |
| Volume V1 | ✓ | ✓ |
| In A | ✓ | ✓ |
| In B | ✓ | ✓ |
| Flow | ✓ | |
| T1 | ✓ | |
| T2 | ✓ | |
| Yearly max power | ✓ | |
| TA2 | ✓ | |
| TA3 | ✓ | |
| Info code | ✓ | ✓ |
| Operating hour counter | ✓ | ✓ |
| Date | ✓ | ✓ |
| Monthly data | | |
| Heat energy E1 and/or cooling energy E3 | ✓ | |
| Volume V1 | ✓ | ✓ |
| In A | ✓ | ✓ |
| In B | ✓ | ✓ |
| Date | ✓ | ✓ |

Ordering

Description

Wireless M-Bus module, alternative registers
 External antenna, mini triangle antenna, 2.5 m cable

Type No.

6700**35**000000
 6699 448

Kamstrup A/S

Industrivej 28, Stilling
 DK-8660 Skanderborg
 T: +45 89 93 10 00
 F: +45 89 93 10 01
 info@kamstrup.com
 kamstrup.com