

Data sheet

Kamstrup Low Power Radio module

for MULTICAL® 403 and MULTICAL® 603

- Wireless radio reading of MULTICAL® 403 and MULTICAL® 603 meters
- Operates within a license-free radio band
- Easily built into the modular slot of the meter (plug and play)
- Internal and external antenna possible
- No configuration
- Prepared for radio network
- Extra pulse inputs
- Supplied from the MULTICAL® meter
- Supports leakage and burst alarm
- GDPR compliant



General description/Application

With a radio module from Kamstrup placed in the meter, it is possible to read the meter either via a hand-held reading system (USB Meter Reader or the hand-held terminal MULTITERM Pro) or via a fully automatic radio network and thus avoid disturbing the consumer (note that HC-003-51 - GDPR cannot be read via the hand-held terminal MULTITERM Pro).

The radio module is mounted in the modular slot(s) of the meter without using tools and is ready for use less than 10 seconds after the calculator top has been mounted.

The reading system now decides which data to read in the meter.

The radio module is designed for the Walk-by/Drive-by solution using the USB Meter Reader or the hand-held terminal, MULTITERM Pro, but is also prepared to be part of a Kamstrup radio mesh network where the read data is automatically transferred to the system software via the network components (routers and concentrators).

The radio module can be delivered with both internal and external antenna. To obtain the best possible radio coverage and range, Kamstrup recommends to use the external antenna.

In addition, the module is equipped with extra pulse inputs for direct connection with other consumption meters, e.g. water or electricity meters. Max cable size is 1.5 mm².

Kamstrup's radio system is extremely robust to interference.

The data security and privacy are secured by applying individual encryption on the data registers from the meter.

Technical data

Electrical data

Supply	Supplied via the meter (battery or mains supply)
Range – installed	With internal antenna: Up to 200 m With external antenna: Up to 500 m
Frequency	434.420 MHz
Output power	2 mW (3 dBm)

Mechanical data

Dimensions (L x W x D)	90 x 35 x 14 mm
Weight	37 g, incl. internal antenna and module cover
Temperature range	-40 °C...+ 70 °C

Markings and standards

Radio Equipment Directive (RED)

- EN300 220-2 v.3.1.1:2016
- EN301 489-1 v.2.1.1:2016
- EN301 489-3 v.2.1.0:2017
- EN61010-1:2010
- EN62311:2008

Restriction of Hazardous Substances Directive (RoHS)

Ordering information

Module HC-003-50

Module configuration XX-YY-ZZZ

	XX	YY	ZZZ
Module type			
Low Power Radio	50		
Low Power Radio, GDPR compliant	51		
System configuration			
EU, 319, NET0 (434.420 MHz)		00	
EU, 319, NET1 (434.420 MHz)		01	
Datagram			
Determined by the reading system			000

Accessories

Description	Type number
Internal antenna	6699 447
External triangle antenna with 2.5 m 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 m antenna cable	6699 442
Antenna cable – 50 m super low loss RG58	6699 460

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