

Data sheet

GSM8H 3G module

- Fast and efficient remote reading of Kamstrup's heat and cooling meters MULTICAL® 602 and MULTICAL® 801, the water meter MULTICAL® 62 and M-Bus Master
- GSM, GPRS and 3G
- Tri-band 900 MHz, 1800 MHz and 2100 MHz
- 9600 bit/secs. data communication via GSM data channel
- Signal strength reading via light emitting diodes as well as SMS



Application

The GSM8H 3G module can be mounted directly in the module area of MULTICAL® 602, MULTICAL® 801 or MULTICAL® 62 as well as in M-Bus Master. With this module mounted, a compact measuring point is created. Everything is included in one box, and there is no need for additional connections.

The GSM8H 3G module supports both 2G (GSM/GPRS), 3G (UMTS/HSPA) and SMS. The quality of the installation is ensured by means of informative light emitting diodes (LEDs) indicating the signal strength. Likewise, the signal strength can be read by SMS making it possible to check installations in closed cabinets.

Technical data

2G (GSM/GPRS/EDGE)

Dual-band 900-1800 MHz
Class 4, 900 MHz, 2 W
Class 1, 1800 MHz, 1 W
GPRS Class 12, class B
EDGE Class E2, 900 MHz, 0,5 W
EDGE Class E2, 1800 MHz, 0,4 W

3G (UMTS/HSPA)

Dual-band 900-2100 MHz
Class 4, 900 MHz, 2 W
Class 3, 2100 MHz, 0.25 W

Electrical data

Supply	Internal 110/230 VAC or 24 VAC. The supply is mounted in the meter together with the module.
Power consumption	
- idle	< 0.35 W
- transmission	< 2 W

Mechanical data

Temperature, storage	-40°C - +85°C
Temperature, operation	-40°C - +85°C
Relative humidity	< 95%, non-condensing
Mounting	Mounted as a module in module slot 2 of MULTICAL® 602, MULTICAL® 801, MULTICAL® 62 as well as in M-Bus Master.
Protection class	IP67 when mounted in MULTICAL® 602, MULTICAL® 801, MULTICAL® 62, M-Bus Master.

Technical data

Marking/approvals

CE marking

RoHS directive

EN 61000-6-1

EMC directive

EN 61000-6-2

EMC directive

EN 61000-6-3/A1

EMC directive

EN 61000-6-4/A1

EMC directive

EN 301 489-1/52

General EMC and ERM requirements for radio equipment/ Specific EMC and ERM requirements for GSM and E-UTRA

EN 301 511

RED. Specific requirements for GSM

EN 301 908-1/13

RED. General requirements for IMT cellular radio network/Radio equipment directive: Specific requirements for E-UTRA

EN 62368-1

Security requirements

EN 62311

Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields

TA-2012/187 + TA-2012/188

ICASA, South Africa

MID approved for mounting in MULTICAL® 602, MULTICAL® 801 and MULTICAL® 62.

Ordering

As a separate module for MULTICAL® 801

Top number: 670XXXXX.801

As a separate module for MULTICAL® 602/62

Top number: 602XXXXX

As a separate module for M-Bus Master

Top number: 670XXXXX.MBM

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