

Data sheet

## GSM Modem 8 3G

- Fast and efficient remote reading of Kamstrup electricity, water and heat meters
- GSM, GPRS and 3G
- Quad band 850-900 MHz, 1800 MHz and 2100 MHz
- 9600 bit/sec data communication via GSM data channel
- 2 serial ports for reading of 2 units in the same call
- Options:  
Universal converter for consumption meters with M-Bus  
Built-in hour and event logger



## Application

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GSM Modem 8 is used for remote reading of Kamstrup electricity meters according to the dial-up principle, typically in connection with a concentrator which makes it possible to collect data from several meters in one call.

GSM Modem 8 offers central upload of new features.

The data transmission is transparent, secured with CRC checksum and controlled from the PC program on the main station.

Hayes AT commands and V.110 protocol are used.

The universal converter is used for all makes of heat, electricity and water meters with M-Bus complying with EN 13757, including Kamstrup, SVM, Actaris, Enermet and Sappel.

It reads hourly data and event logs from the connected meter and functions at the same time as supply unit for the meter's M-Bus module.

## Loggable data (if available in the connected meter)

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Energy

Volume

Hour counter

$T_{\text{flow}}$

$T_{\text{return}}$

$\Delta T$

Actual power

Actual flow

This data is always time stamped by the built-in RTC (Real Time Clock) of the RF M-Bus Converter II

Logging depth: 1080 registers = 45 days of hourly data

## Technical data

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### 2G (GSM/GPRS/EDGE)

Quad 850-900-1800-1900 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

## Technical data

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### 3G (UMTS/HSPA)

Dual-band 900-2100 MHz

Class 3, 900-2100 MHz, 0.25 W

Antenna	Dual band internal antenna with MCX connector for external connection
Communication	9600 bit/sec.
Protocol	V.110 with CRC checksum
GPRS	Class 8, Class B

### Electrical data

Supply	110/230 VAC or 24 VAC
Power supply	
– idle	< 2 VA
– transmission	< 4 VA
Serial ports	
– port 1	RS232 or Kamstrup 3-wire
– port 2	Kamstrup 3-wire
Status input	2 pcs. potential free, 3.6 VDC in series with 1 M $\Omega$

### Mechanical data

Dimension (wxhxd)	165x100x65 mm (including DIN rail adapter)
Temperature	
– storage	-40°C +60°C
– operation	-40°C +60°C
Relative humidity	< 95%, not condensing
Installation	Mountable on wall or DIN rail
Density	IP54
Cable length	
– 230 V	1.5 m
– serial	1.5 m

### Marking/approvals

CE marking

RoHS directive

EN 61000-6 EMC directive

EN 60950-1 Information technology equipment – Safety

EN 301489-1 R&TTE (general EMC requirements for radio equipment)

EN 301489-7 R&TTE (GSM & DCS)

EN 301489-24 R&TTE (CDMA)

EN 301511 R&TTE (radio spectrum)

EN 301908-1 R&TTE (radio spectrum)

EN 301908-2 R&TTE (radio spectrum)

TA 2012-188 ICASA South Africa

## Ordering

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Description	Type No.
GSM Modem 8	68G8XXXXX

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