

Data sheet

GSM Modem 6

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



Application

GSM Modem 6 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 6 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.

The universal converter has a built-in real time clock (RTC) and time stamps all data.

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)

Energy

Volume

Hour counter

T_{flow}

T_{return}

ΔT

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

GSM

GSM 900-1800 MHz Phase II +	
- class 4	900 MHz, 2 W
- class 1	1800 MHz, 1 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
RTC	
- accuracy	20 ppm
- backup	min. 10 days
Relay outputs	2 pcs. 230 VAC, 100 mA solid state
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 Ω .

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	
EN 61600-6	EMC
CTR 19,20,31,32	GSM approval
EN 13757	

Ordering

Description	Type no.
GSM Modem 6	68G6XXXXX

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