

Data sheet

GSM8i 2G module

- 2G module for fast and stable reading of the electricity meter
- Plug-and-play installation with clear information about the signal strength
- Status/pulse input
- SMS reading of meter and GSM signal strength
- Internal antenna



Application

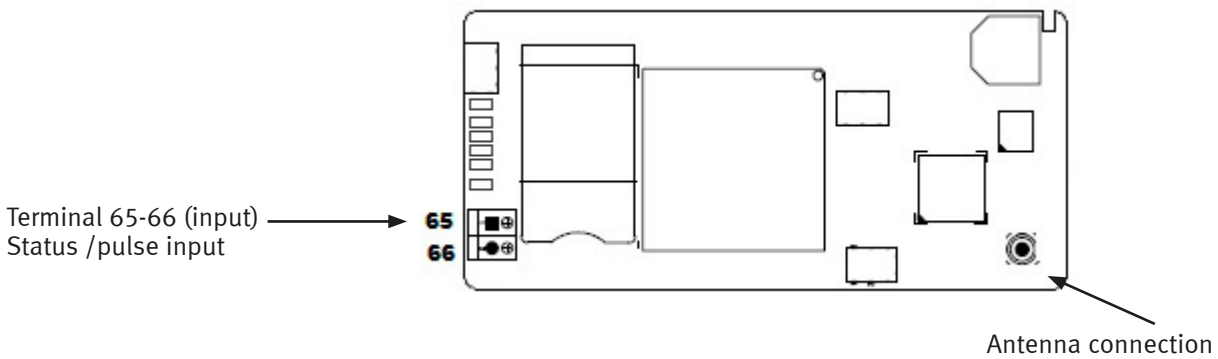
The GSM8i 2G module supports 2G (GSM/GPRS) and SMS ensuring a fast and reliable connection to the metering point. The module is mounted in Kamstrup's direct electricity meters of type K and in Kamstrup's CT meters of type B and forward.

The quality of the installation is ensured by means of in-

formative 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.

The module has an internal antenna, which is sufficient for most installations, but it also has a connector for the mounting of an external antenna in particularly demanding areas.

Connection diagram



Technical data

GSM antenna

Quad-band PCB antenna with MCX connector.

2G (GSM/GPRS)

Quad-band 850/900/1800/1900 MHz

Class 4 850/900 MHz, 2 W

Class 1 1800/1900 MHz, 1 W

GPRS Class 10, class B

Electrical data

Supply From the electricity meter

Power consumption

- idle < 0.35 W

- transmission < 2 W

Technical data

Status / pulse input (isolated switch)

Limit values

Cable length max	20 m
Cable capacity max	10 nF
Leak current contact max	0.5 uA
Frequency max	16.6 Hz
Pulse time min.	10 ms
Pulse time max	90 ms
Pulses in before display changes	8

Mechanical data

Dimension (wxhxd mm)	41x20x93
Temperature, storage	-40 °C ... +85 °C
Temperature, operation	-40 °C ... +70 °C
Relative humidity	< 95 %, non-condensing
Mounting	In the module area of the electricity meter
Density	Same as electricity meter

Marking/approvals

CE marking	
RoHS directive	
EN 61000-6	EMC directive
EN 50470-1	Electricity measuring equipment
EN 60950-1	Information technology equipment – safety
EN 301489-1	General ERM and EMC requirements for radio equipment
EN 301489-7	Specific ERM and EMC requirements for GSM DCS
EN 301511	R&TTE for GSM 900 and GSM 1800
TA-2011/188	ICASA – South Africa

Compatibility

Protocol/meters	162/282/382KLM	351BC	OMNIPOWER
DLMS/COSEM & KMP (TCP/IP)	- [*]	- [*]	- [*]
DLMS/COSEM & KMP (UDP)	✓	✓	✓
DLMS/COSEM & KMP (GSM)	✓	✓	✓

* See integrator's Guide

GSM8i 2G module

Ordering

Single module	6819xxxxxxx (top number 681xxxxxxx)
In meter	6850053.x