

Data sheet

GSMD 2G module

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



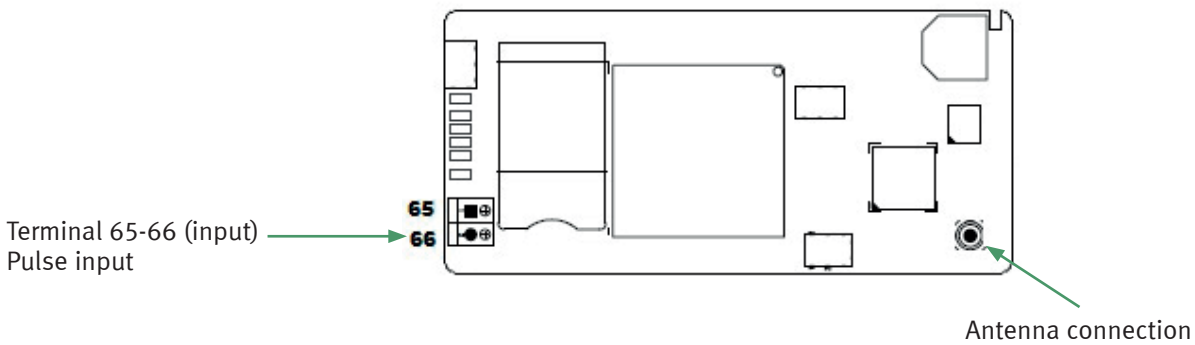
Application

The GSMD 2G module supports 2G (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 OMNIPower.

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.

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

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

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 ... +85 °C
Relative humidity	< 95 %, non-condensing
Mounting	In the module area of the electricity meter
Density	IP51 when mounted in electricity meter

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

Protocol/meters	OMNIPOWER
DLMS/COSEM (UDP/IP)	✓
KMP (TCP/IP)	✓

Ordering

Description

Single module
In meter

Type No.

681C00000000 (top number 681xxxxxxx)
6850053.51

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