

Data sheet

GSM3P module

- 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

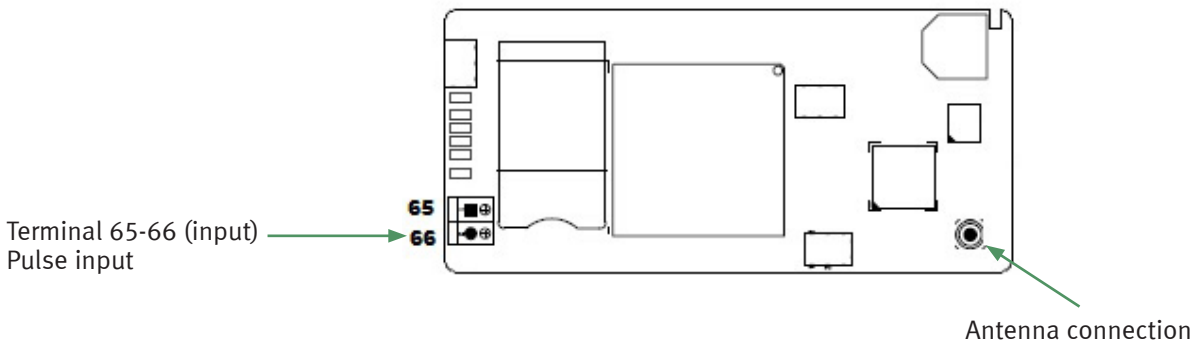
The GSM3P module supports 2G (GPRS) ensuring a fast and reliable connection to the metering point. The module is mounted in Kamstrup's direct electricity meters of type OMNIPower.

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.

This module is supporting both DLMS/COSEM and KMP via TCP/IP.

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 | |
| 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-2011/188 | ICASA – South Africa |

Ordering

Description

Single module
In meter

Type No.

681D00000000 (top number 681xxxxxxx)
6850053.xx

GSM3P module

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