

Data sheet

OMNICON 2G modem

- 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



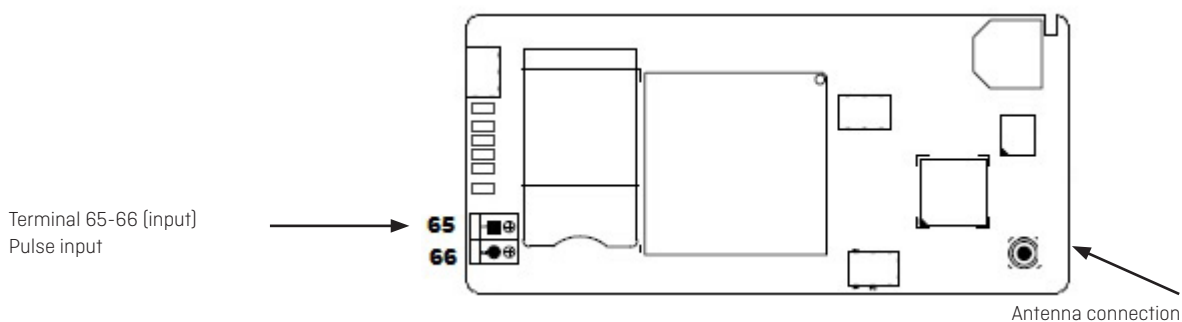
Application

The OMNICON 2G Modem supports 2G (GPRS) and SMS ensuring a fast and reliable connection to the metering point. The module is mounted in Kamstrup's electricity meters of type OMNIPOWER for OMNIA systems.

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

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

Pulse input (isolated switch)

Limit values

Cable length max	20 m
Cable capacity max	10 nF
Leak current contact max	0.5 μ A
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

RoHS2 directive

EN 61000-6

EN 50470-1

EN 60950-1

EN 301489-1

EN 301489-7

EN 301511

TA-2011/188

EMC directive

Electricity measuring equipment

Information technology equipment – safety

General ERM and EMC requirements for radio equipment

Specific ERM and EMC requirements for GSM and DCS

R&TTE (RF spectrum)

ICASA – South Africa

Ordering

Single module

681A00000000 (top number 681xxxxxxx)

In meter

6850053.51

Kamstrup A/S

Industrivej 28, Stilling

DK-8660 Skanderborg

T: +45 89 93 10 00

F: +45 89 93 10 01

info@kamstrup.com

kamstrup.com