

GSM7i Module

DATA SHEET

- **GSM/GPRS module for a fast and stable reading of the electricity meter**
- **Innovative solution that future-proofs the metering point via extra module area**
- **Plug and play installation with clear information about the signal strength**
- **Status/pulse input**
- **Load control output**
- **SMS reading of meter and GSM signal strength**
- **Internal antenna**



Application

With the module GSM7i, the metering point is future-proof as it supports GSM, GPRS and SMS and also offers the possibility of mounting an extra add-on module. The add-on module can provide extra features (e.g. load control relays) or an extra communication medium (e.g. ZigBee, Z-Wave, Wireless M-Bus or similar).

The module GSM7i is directly inserted in the module area of the electricity meter (162J+K, 282J+K, and 382J+K),

which makes it possible to read and configure the meter remotely. The quality of the installation is ensured by means of informative Light Emitting Diodes (LEDs) that indicate the GSM signal strength. Likewise, the signal strength can be read by SMS making it possible to check installations in closed cabinets.

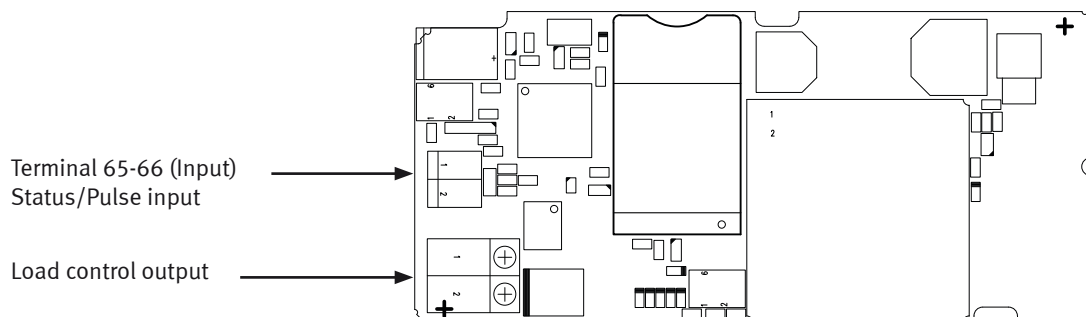
Communication via GSM/GPRS is highly suitable for fast and reliable reading of the measuring point,

whether in densely built-up areas or in rural areas. The module has an internal antenna, which will be sufficient for most installations, but it also has a connector for mounting of an external antenna in particularly demanding areas.

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Connection chart



Technical data

GSM

GSM 900-1800MHz Phase II +	
Class 4	900MHz, 2W
Class 1	1800MHz, 1W
Antenna	Dual-band PCB 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	Via the electricity meter
Power consumption	
– idle	< 0.35W
– transmission	< 2W
RTC accuracy	20 ppm
RTC backup	min. 10 days
Load profile	5/15/30/60 minutes
Logging depth	3/11/22/45 days
Daily logger, depth	45 days
Weekly logger, depth	45 weeks
Monthly logger, depth	45 months
Event logger, depth	64 events (interruptions for less than two min. are not registered)
Tariff switch	2 tariff switches + 30 optional days
Load control	230 V, 100 mA (Solid State)

Status / pulse input (potential-free)

Limit values

When configured	Normal	Fast
Cable length, max	20 m	20 m
Cable capacity, max	100 nF	10 nF
Leak current switch max	0.5 uA	0.5 uA
Frequency, max	0.5 Hz	16.6 Hz
Pulse duration, min.	1 sec.	10 ms
Pulse duration, max	1 sec.	90 ms
Pulses in before display reading changes	1	8

Mechanical data

Dimension (wxhxd mm)	42x15x92
Temperature, storage	-40°C +60°C
Temperature, operation	-40°C +60°C
Relative humidity	< 95%, non-condensing
Mounting	In the module area of the electricity meter
Density	IP51 installed in the electricity meter

Marking/approvals

CE marking	
EN61600-6	EMC
EN62052-11	Electricity meter approval
CTR 19,20,31,32	GSM approval
TA-2011/670	ICASA, South Africa

Ordering

GSM7i

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