

GPRS Modem

EM-GPRS-SmartG02



Residential



Commercial



Industrial

The SmartG-02 electricity meter series are modern, electronic, fully programmable devices, designed for application in AMI systems for monitoring and control of electricity consumption.

The SmartG-02 electricity meter series meet remote data transmission requirements and enable readouts of various measurands. The meters are compliant with IEC and DLMS/COSEM standards and have been designed to serve billing purposes.

The EM-GPRS-SmartG02 is a data transmission modem that works over the cellular network over the Quad-band GSM/GPRS 850/900/1800/1900MHz. It uses the TCP/IP protocol stack to send or receive the data.

The modem could be connected to the meter as a plug and play modem that could be connected through the RS485.

The Modem module is located in an external module box.

The Data Transmission Rate is 56–114 Kbit/s.

The module has internal integrated antenna and enables an additional external antenna to be mounted outside the cabinet or meter case.

A Connector for SIM card is accessible to insert or replace the SIM card.



GSM/GPRS



MODEM SPECIFICATIONS

Modem Characteristics

Band of GSM Communication	Quad-band GSM/GPRS 850/900/1800/1900MHz
Communication Protocol	TCP/IP protocol stack
Power Source	The modem is powered from the meter, or from external power source

Environmental Conditions

Temperature Range	-5°C to +70°C
Storage Temperature	-25°C to +80°C
Humidity Range	<90%
Altitude	0-3600M
Service Life	20 Years

Communication

Serial Communication Port	RS-485 Complies with DLMS/COSEM direct HDLC protocol
Data Transmission Rate	RS-485: 2400 bit/s GPRS: 56–114 Kbit/s