



EMGSM1

MID Certified LTE Smart Meter for Renewables, FIT and Sub-Metering Applications

Metering

- MID Certified
- Measures Import and Export
- Power Quality Displays - Volts, Current, Power etc.
- LTE Signal Strength Display
- HH kW Profile Data

LTE Communications

- Optimised internal antenna
- Multi-network SIM factory fitted
- Simple SIM swap without need for de-energising mains supply

Other Available Models and Accessories

- EMGSM1xa with aerial socket for external aerial connection
- EMGSM1R with capability to connect via Zigbee to Gas and Water pulse senders
- Optional extended terminal cover

Features

Designed specifically for Single Phase AMR, the EMGSM1 provides remote collection of meter readings, for example for monitoring kWh energy usage or renewable generation (wind, solar etc.). The meter is of modular construction and allows a range of communication modules to be fitted to allow for future developments in remote metering.

The meter is a fully MID certified device and measures in two directions, allowing measurements of import/export, generation/parasitic load or battery charge/discharge.

The meter has been designed to minimise installation time and reduce the need for return maintenance visits. An indication of the LTE signal strength is provided on the meter display, which allows the installer to leave site confident that the installation is fully operational with a robust communication link.

SIM Module

The SIM is installed ready for use, thus saving time and effort on site. SIM exchange is simple via a holder fitted to the underside of the module. A simple slide in action inserts and removes the SIM. Multi-network SIMs are supplied which roam between O2, Vodafone, EE and other networks for optimum coverage in all areas.

EMGSM1 Technical Data

Electrical

Voltage	Nominal voltage	220V-240V
	Maximum	276V
	Voltage withstand	415V continuously
Frequency	Nominal frequency	50Hz
	Frequency variation	± 5%
Current	Basic current (Iref)	5A
	Maximum (Imax)	100A

Metrology

Accuracy	Active Energy	Class B, to EN 50470 1-3
	Reactive Energy	Class 2, to IEC 62053 –23

Meets the essential requirements of the Measuring Instruments Directive (MID) 2004/22/EC

Environmental

Temperature Range	-25°C to +55°C
Ingress protection	IP52, to BS EN 60529

Meters are intended for installation in a class E2 electromagnetic environment and Class M1 Mechanical Environment according to 2004/22/EC Directive

Physical

Terminal arrangement	BS 7856
Main terminal size	8.2 mm diameter
Terminal construction	Solid brass
Dimensions	H185 x W125 x D80 mm

Compatible with  **MeterOnline**

Remote readings for an annual subscription with simple online registration...
www.meteronline.co.uk

- One subscription covers the SIM account and data handling
- Self-registration of meters using meter number and security code
- Accounts for 1 to 1000s of meters
- Meter groups within accounts (buildings, projects etc.)
- Database of meter information – location, FIT ID etc.
- Spreadsheet view listing all readings
- Automatic data export via email/FTP, plus API
- FIT Report, Energy Report, Performance Report etc.
- Individual meter dashboard displays with readings and various profile graphs
- Instantaneous readings from meter on demand
- Automatic email alerts - No Generation, Missed Readings
- Read only account password and individual customer single meter access
- Ongoing improvement policy since 2005