

EML-SMART SIM CARD METER

EML-Smart Sim Card Meter

The emlite modular meter serves as the perfect base for the GSM module enabling automatic meter reading of micro-generation and other remote metering applications.

The emlite meter is of modular construction and allows a range of communication modules to be fitted. Designed specifically for the collection of micro-generation metering data, the ASLH382 GSM module provides remote collection of meter readings especially generation metering of wind, solar and any other renewable energy installations.

The meter is a fully MID approved device and can provide functionality over and above that required for generation metering making it suitable for many other applications. Additional functionality includes Time-of-Use Rate Switching, Power Quality Recording, Active (kWh) and Reactive (kvarh) energy measurement across both import and export. The module is capable of accessing and configuring these additional features remotely.

The overall solution has been designed to minimise installation time and reduce the need for return maintenance visits. An indication of the GSM signal strength is provided on the meter display and in the cases where a network resilient SIM is fitted, the number of available networks is provided. This single display allows the installer to leave site confident that the installation is fully operational with a robust communication link.



Key Features:

- Fully MID approved
- Measures Import and Export, Active and Reactive Energy
- Power Quality Information - Volts, Current, Power etc.
- GSM Signal Strength Display

Communication module:

- Optimised Internal Antenna
- Simple SIM card Fitting
- External Antenna option, where required
- Simple installation to meter without need for de-energising mains supply

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Communication Module

The communications module simply installs to the top of the meter using the mains and metering data connectors. Installation of the module to the meter can be made at the time of installation or supplied ready assembled directly from the factory thus saving time and effort on site.

The module is fitted with an optimised internal antenna designed to reduce the need for external antennas, even in low signal strength areas. Utilising the GPRS network a variety of metering data is available including the half hourly profiling of import and export energy for the previous 120 days.

Standard or Solid State (Chip) SIMs may be fitted. In the case of standard SIMs, installation is simple via a holder fitted to the underside of the module. A simple Push-Push action inserts and removes the SIM.

emlite and its partner ASL Holdings are able to offer a selection of data collection services and airtime packages including network resilient SIMs which allow automatic network switching in cases of poor primary network coverage, removing the need to swap SIM cards in the field.



Simple SIM installation

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Electrical		
Voltage	Nominal voltage	220V–240V
	Maximum	276V
	Voltage withstand	415V (continuously)
Frequency	Nominal frequency	50Hz
	Frequency variation	± 5%
Current	Basic current (Iref)	5, 10, 15 and 20A
	Maximum (Imax)	100A

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

The meter 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 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: (including module) H 182mm x W 126mm x D 68mm