

Designed specifically to collect micro-generation metering and feed-in tariff data

ASLH382 Emlite GSM Meter



Component snapshot

The ASLH382 module provides remote collection of meter readings through the mobile phone network's GPRS service. The meter is a fully MID approved device and can provide functionality over and above that required for 'entry level' metering such as Time-of-Use Rate Switching, Power Quality Recording as well as Active (kWh) and Reactive (kvarh) energy measurement across both import and export.

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

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 service, a variety of metering data is available allowing the profiling of import and export energy for the previous 120 days.

Features

- Fully MID approved meter
- Measures Import and Export
- Measures Active and Reactive Energy
- Power Quality Information; Volts, Current, Power etc.
- Inbuilt signal analyzer that helps simplify the installation process
- An optimised internal antenna provides outstanding communications even in low signal strength areas
- External Antenna option (if required)
- Simple installation to meter without need for de-energizing mains supply

PassivSystems 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.

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Technical detail

The ASLH382 Meter		
Electrical	Nominal Voltage	220V—240V
	Maximum Voltage	276V
	Voltage withstand	415V continuously
	Nominal Frequency	50Hz
	Frequency variation	± 5%
	Basic Current (Iref)	5, 10, 15 or 20A
	Maximum (Imax)	100A
Metrology (accuracy)	Active energy	Class B, to EN 50470 1-3 Meets the essential requirements of the Measuring Instruments Directive (MID) 2004/22/EC. MID (Module B) Certificate Number 0120/SGS0083.
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	(including module)	182H × 126W × 68D
ASL GSM Wireless Modem		
Data rates and standards: GPRS protocol: Network compatibility: SMS protocol: Error correction / Data compression: Power supply: Weight: Connectivity: Environmental conditions: Antenna connector: Approvals:	V22 (1200bps), V22bis (2400bps), V32 (9600bps) Supports TCP/IP stack Class 10, and ASL high efficiency telemetry protocols (ATP) Quad band for use on GSM & GPRS (Class B 4+1) networks at 850/900/1800/1900 MHz Standard text and PDU modes supported V42, V42bis standards for modem and V110 for ISDN and GSM hosted applications 85 – 265VAC from meter module connector 90g Via module connector -20 to +55° C operating; -20 to +70° C storage. Humidity 0-95% non-condensing SMA connector. PassivSystems also stock a range of external antennas to maximize reception (optional extra). The product conforms to : 3GPP TS 51.010-1, EN60950, R&TTE Directive 99/5/EC & Low Voltage Directive 2006/95/EC	



PassivSystems reserves the right to make changes to its products from time-to-time without notice.

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