

Microgeneration Smart Meter



- High accuracy meter
- Suitable for use with Solar PV and wind generators
- Allows remote monitoring of microgen installations
- Manufactured to comply with IEC 60687/61036/61268 and IEC 62053-21/62053-22/62053-23
- Single phase operation, up to 14.4 kWp
- Clear LCD readout
- Wireless operation
- Low power operation
- Simple installation

The Microgeneration Smart Meter is a high accuracy energy meter designed specifically for use with Solar PV and small-scale wind generators up to 14.4 kWp. Suitable for use internationally, this meter can remotely monitor the energy that your solar or wind system is generating and then send the information to the Enistic web-based monitoring, reporting and analysis systems.

Wireless communications, wall mount fittings and internal current clamps make for simple installation.

Features

- High accuracy design, AC2.0
- Manufactured to comply with international standards IEC 60687/61036/61268 and IEC 62053-21/62053-22/62053-23
- Measures active energy (kWh) and reports back to the remote monitoring system
- Also measures other factors such as apparent energy, active power, RMS voltage, RMS current, power factor, temperature and frequency
- Clear LCD to show measured values
- Wide voltage supply range of 110-240VAC
- Ib=10A, maximum 60A
- Suitable for use in solar and wind with a maximum of 14400W of generation (kWp)
- Wireless operation
- Encrypted communications for secure operation
- Mesh networking for excellent range

Application areas

- Solar PV
- Wind generators

Information subject to change without notice. E & EO.

For further information and ordering please contact Enistic Limited, UK Company Number 0690 8381, VAT GB 974 6803 78
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BBSP-MG1

Electrical

Item	Value	Unit
Power supply	110 - 240 50-60	VAC Hz
Power consumption (typical/max)	0.1 / 0.1	W

Metrology

Item	Value	Unit
Accuracy class	Class AC2.0 / IEC 60044-1 Accuracy class 2 Suitable for billing applications	
Energy	Active energy, reactive energy and apparent energy	kWh VAh, VARh
Power	Instantaneous active power	kW
General metrology	Power factor, RMS Voltage, RMS current frequency, temperature (+- 3DegC)	V, A Hz, Deg C
Maximum current	60	A
Maximum size of generator	14,400	Wp
lb	10	A
Maximum diameter of input wires	6.5	mm
Nominal reporting interval (kWh)	10	s
Nominal reporting interval (other measurements)	180	s

Physical

Item	Value	Unit
Size (l x w x h)	165 x 117 x 65	mm
Fitting	Wall mount	
Weight	750	g
Storage (min -> max)	-20 to 50	°C
Storage (min -> max)	0 to 60	% rel. hum.
Operation (min -> max)	0 to 75	°C
Operation (min -> max)	0 to 60	% rel. hum.

Wireless communications

Item	Value	Unit
Frequency	2.4	GHz
Interferes with WiFi	No	
Standard	IEE 802.15.4 / Zigbee Pro	
Maximum range between mesh nodes	32	m
Maximum nodes per network	> 1,000,000	nodes
Encryption standard	128 bit AES	

Miscellaneous and standards

Item	Value	Unit
Standards	CE, EMF, LVD, WEE, ROHS	
Manufactured to comply with	IEC 60687/61036/61268 and IEC 62053-21 IEC 62053-22/62053-23	
Country of origin	UK (Manufactured in UK)	
Packaging	Cardboard box	

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