

### Smart Meter (Wall Mount)



- High accuracy meter
- Suitable for residential billing or metering single phase circuits
- Manufactured to comply with IEC 60687/61036/61268 and IEC 62053-21/62053-22/62053-23
- Single phase operation up to 60A
- Comprehensive energy measurements including active energy, reactive energy, power factor and RMS voltage / current
- Wireless operation
- Low power operation
- Simple installation

The Smart Meter SUB1W is a high accuracy energy meter suitable for residential energy billing or single phase monitoring applications. The meter accepts a wide range of input voltages and can be used internationally. The SUB1W provides a comprehensive range of power quality information, which can be used to diagnose or monitor precise electrical behaviour. 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, reactive energy, 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
- Wireless operation
- Encrypted communications for secure operation
- Mesh networking for excellent range
- Unique serial number embedded in each device for identification on network

#### Application areas

- Metering of incoming feed to residential buildings
- Microgeneration (e.g. Solar PV / Wind)
- Metering of individual machines and single phase circuits
- Billing and bill apportionment of residential tenants
- Analysis of power factor quality

# BBSP-SUB1W

## 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
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	

Information subject to change without notice. E & EO.

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