

Smart Meter (Fiscal, Wall Mount, 3 Phase)



- High accuracy meter suitable for residential, commercial and industrial billing purposes
- Manufactured to comply with IEC 60687/61036/61268 and IEC 62053-21/62053-22/62053-23
- Three-phase operation up to 180A
- Comprehensive energy measurements including active energy, reactive energy, power factor and RMS voltage / current
- Wireless operation
- Low power operation
- Simple installation

The Smart Meter SUB3W is a high accuracy energy meter suitable for commercial energy metering applications. The meter is suitable for three phase operation with a wide range of input voltages and can be used internationally. The SUB3W 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
- For each phase, measures active energy, reactive energy, apparent energy, active power, RMS voltage, RMS current and power factor
- Measures temperature and frequency
- Clear LCD to show measured values
- Wide voltage supply range of 110-240VAC
- Ib=10A per phase, maximum 60A per phase (180A maximum across all phases)
- 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 offices and commercial buildings
- Metering of individual machines and three-phase circuits
- Billing and bill apportionment of commercial tenants
- Analysis of power factor quality

BBSP-SUB3W

Electrical

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

Measurements and metrology

Item	Value	Unit
Accuracy class	Class AC2.0 / IEC 60044-1 Accuracy class 2 Suitable for billing applications	
Energy	Active energy phases 1/2/3, reactive energy phases 1/2/3 and apparent energy phases 1/2/3	kWh VAh, VARh
Power	Instantaneous active power phases 1/2/3	kW
General metrology	Power factor phases 1/2/3, RMS Voltage phases 1/2/3, RMS current phases 1/2/3, frequency phase 1, temperature (+- 3DegC)	V A Hz, Deg C
Maximum current	180 (3 phases of 60A each)	A
Ib	10A / phase	A
Maximum diameter of input wires	9	mm
Nominal reporting interval (kWh)	10	s
Nominal reporting interval (other measurements)	180	s

Physical

Item	Value	Unit
Size (l x w x h)	218 x 145 x 68	mm
Fitting	Wall mount	
Weight	1250	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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