

### Smart Meter, DIN Mount



- 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
- Single phase or three phase operation
- Up to 1800A maximum current
- Measures active, reactive and apparent energy as well as power factor
- Wireless operation
- Low power operation

The Enistic Smart Meter SUB3 is a high accuracy energy meter suitable for residential, office and industrial energy metering applications. The meter can be used in single or three phase modes. Wireless communications, DIN mount fitting and external current clamps make for simple installation. A push-button display on the front of the meter allows for selective display of energy, power, voltages and currents in each of the phases.

#### Features

- High accuracy design
- Available in 300A (3 x 100A) or 1800A (3 x 600A) configurations
- Manufactured to comply with international standards IEC 60687/61036/61268 and IEC 62053-21/62053-22/62053-23
- Measures each phase: apparent energy, power, active energy, reactive energy, voltages, currents, phase angles and power factor
- Also measures temperature and frequency
- LCD and push-button to show measured values
- Wide voltage supply range of 110-240VAC
- Wireless operation
- Encrypted communications for secure operation
- Mesh networking for excellent range

#### Application areas

- Metering of single phase or three phase circuits
- Billing and bill apportionment
- Metering residential, office and industrial energy use
- Analysis of power factor quality
- Metering energy use of large plant

#### Order codes

- 300A = BBSP-SUB3
- 1800A = BBSP-SUB3-600

# BBSP-SUB3

## 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
Energy	Apparent (sum), Active phases 1/2/3, reactive phases 1/2/3 and apparent phases 1/2/3	kWh
Power	Instantaneous power use (sum), VA phases 1/2/3	kW
General metrology	Power factor, phase angle, frequency & temperature	
Accuracy class	Class 1 or class 2 / IEC 60044-1 Accuracy class 1 Suitable for billing applications	
Maximum current	300 (3 phases of 100A ea.) or 1800 (3 phases of 600A ea.)	A
lb	10A / phase (100A clamps) or 60A / phase (600A clamps)	A
Maximum diameter for use in current clamp	18.5mm (100A clamps) or 32mm (600A clamps)	mm
Current clamp wire length	1000	mm
Nominal reporting interval (kWh)	10	s
Nominal reporting interval (other)	180	s

## Physical

Item	Value	Unit
Size (l x w x h)	86 x 70 x 58	mm
Fitting	DIN rail mount	
Weight	150g (meter) + 3 x 98g (100A) or 3 x 650g (600A)	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	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 62053-21/62053-22/62053-23	
Country of design / manufacture	UK / UK	
Packaging	Cardboard box	

Information subject to change without notice. E & EO.

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