

16 Channel Semi-Fiscal Distribution Board Smart Meter



- Accurate power meter suitable for residential, commercial and industrial use
- Single phase or three phase operation
- Monitors up to 100A per circuit
- Measures voltage, current, active power and power factor on 16 different channels
- Wireless operation
- Low power operation

The Enistic 16 Channel Semi-Fiscal Distribution Board Smart Meter is an accurate power meter suitable for use for residential, office and industrial 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. An easy to read LCD display on the front of the meter allows for display of wireless network state, power, voltage and currents in each of the channels. The meter is rated at AC2.0 for general use.

Features

- Accurate to sub 2% for general use (AC2.0)
- Uses voltage reference for accurate readings
- From 0-25A or 0-100A per channel
- Measures power, voltage (rms), current (rms), apparent power and power factor
- LCD to show measured values
- Wide voltage supply range of 110-240VAC suitable for international use
- Wireless operation
- Encrypted communications for secure operation
- Mesh networking for excellent range

Application areas

- Metering residential, office and industrial energy use
- Analysis of power factor quality

Order codes

- BBSP-SM16D
- Compatible clamps are: BBSP-CT30B, BBSP-CT30C, BBSP-CT100

BBSP-SM16D

Electrical

Item	Value	Unit
Power supply	110 - 240 50-60	VAC Hz
Power consumption (typical/max)	0.5 / 2.0	W

Measurements and metrology

Item	Value	Unit
Power	Active power phase 1, VA phase 1	W
General metrology	Power factor phase 1, reactive power phase 1, voltage (rms, phase 1), current (rms)	
Three phase option	Software option. Optionally, assumes power factors and voltages on phases 2 and 3 are equal to phase 1	Optional
Maximum channels	16 (switchable from 1 -> 16 active channels)	
Accuracy class	AC2.0 for general use	
Maximum current per channel	25A or 100A depending on clamp	A
Ib (when using 30A clamps)	0.3	A
Ib (when using 100A clamps)	1.0	A
Maximum diameter for use in current clamp	13mm (30A clamps) or 18.5mm (100A clamps)	mm
Current clamp wire length	1000	mm
Nominal reporting interval	10	s

Physical

Item	Value	Unit
Size (l x w x h)	86 x 70 x 58	mm
Fitting	DIN rail mount (4 DIN wide)	
Weight	150	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 metering nodes per network	> 1,000,000	nodes
Encryption standard	128 bit AES	

Miscellaneous and standards

Item	Value	Unit
Standards	CE, EMF, LVD, WEE, ROHS	
Country of design / manufacture	UK / UK	
Packaging	Cardboard box	

Information subject to change without notice. E & EO.

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