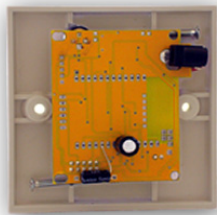
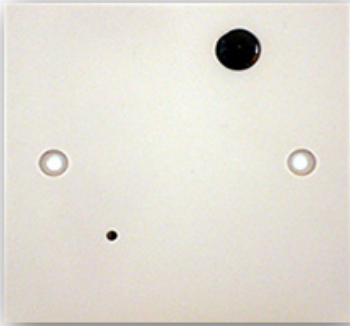


### Multi-Sensor



- Temperature sensor, light sensor and motion sensor in one unit
- Fits into standard 1 gang back box
- Low power consumption
- Communicates with Enistic Energy Manager On-line and Enistic Energy Manager Desktop

The Enistic Multi-Sensor is a three in one sensor featuring temperature measurement, light measurement and motion detection in one device. Designed for general office, residential and light industrial use, the Multi-Sensor can be used to both log simple temperature, light and occupancy data and also as a feed into the Enistic Energy Manager Analytics system allowing analysis of air conditioning, heating and lighting performance. When combined with the occupancy analysis module, the Multi-Sensor can provide the information required to produce room occupancy usage analyses.

#### Features

- Reports temperature and light levels every 10 seconds
- When motion is detected an instant reports to Energy Manager is generated
- Full temperature, light and motion information reported via Energy Manager Desktop
- Using Energy Manager Online, email / SMS alerts can be created to warn when the temperature is outside of an allowable band.
- Using Energy Manager Online, email and SMS alerts can be created when motion is detected.
- Encrypted communications for secure operation
- Mesh networking for excellent range
- Unique serial number embedded in each device for identification on network

#### Application areas

- Data logging & remote data logging
- Home and office energy management
- Measuring temperatures, light levels or detecting motion
- Analyses of room occupancy levels
- Analyses of air conditioning and heating efficiency
- Automated control of other building management devices

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-TS

## Electrical

Item	Value	Unit
Power supply	5V, 300mA, Regulated	
Power supply connection	2.1mm, centre positive	
Power consumption (standby/typical/max)	0.000001 / 0.006 / 0.11	W
Battery option	3 x AA NiMH	
Expected battery life	6 months - 1 year*	mW

## Measurements and detection

Item	Value	Unit
Temperature range	-55 to +125	°C
Nominal temperature accuracy	± 1	°C
Extreme temperature accuracy (< -40°C or > +85°C)	± 2	°C
Light measurement range	25 - 350	lux
Light measurement accuracy	± 10	lux
Motion detection range	5	m
Motion detection angle (horizontal / vertical)	82° / 100°	
Motion detection zones	64	
Nominal reporting interval (temperature & light)	10	s
Nominal reporting interval (motion)	Triggered on motion detection	

## Physical

Item	Value	Unit
Size (l x w x h)	88 x 88 x 26	mm
Fitting	1 gang mounting box. 25,35 or 47mm deep.	
Weight	370	g
Protrusion from front of plate	9	mm
Storage (min -> max)	-20 to 50	°C
Storage (min -> max)	0 -> 60	% rel. hum.
Operation (min -> max)	-50 to +125	°C
Operation (min -> max)	0 -> 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	
Country of design / manufacture	UK / UK	
Packaging	Cardboard box	

\* Estimated

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