

# WiSen: SmartGateway



## WIRELESS MONITORING SYSTEM



Each WiSenMeshNet installation will require at least one SmartGateway.

This the local system controller and Smart datacentre, it manages the local mesh radio system scheduling connected sensors to read data from the nodes and then transmits data for on-line review or buffers local data storage.

The system has an integrated 2G/3G/4G modem and transmits all collected data to the WiSen cloud hosted data centre for review via a web interface. The SmartGateway can be powered externally however it also has its own internal power supply which can last up to 400 days.

It also has internal storage capacity for logging of data during any loss of connection to the internet. At reconnection, this data is then relayed to the central service, which can be viewed at any web enabled device.

This gateway requires internal batteries and can use external power to operate (7v~32v DC)

### Features

- WiSen Mesh control unit
- 4G/WLAN/LAN/RS232
- Central data hub
- 8Gb Internal memory
- Internal / External power
- IP66



Interface accessible via the internet



Call **03 9823 1533** for more information  
[survey.crkennedy.com.au](http://survey.crkennedy.com.au)



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Specification		
Basics	1005 C Version	1004 B Version
Primary Battery Power	Qty. x 4 (3.6V Lithium primary D Cell ER34615)	
Battery Connection	Standard Aluminium Battery Holder	
Secondary DC Power	7V - 32VDC (Min. Current $\geq$ 2Amp, e.g. 110 240VAC to 12VDC adaptor)	
Tertiary Power (External)	3.6VDC Battery Unit or Solar Unit	10.8VDC Battery Unit or Solar Unit
Mobile Network Stop Voltage	$\geq$ 2.65VDC	$\geq$ 5.50VDC
Local Storage	8GB (Min. 1.5 Yrs Storage)	
L x W x H	180 x 140 x 60mm	
Weight	$\leq$ 2.0kg	
Cable Gland	Qty. 1 x EMC CMA12 for external RS232 connection Qty. 1 x EMC CMA14 for external DC input power connection	
Wire Connection	DC In Spring type wiring terminal	
External Interface		
Wireless Module	Compatible with 2G/2.5G/3G/4G of Micro SIM card	
Wired Port	RS232	
WSN Interface		
WSN Protocol	WISENMESHNET® Protocol	
Low Power Mode	$T > 3$ min and Server Connection Ratio DTU_T = 1,99JT	
Standard System Parameter		
Temperature	Measurement Range: 40 to 85 °C , Accuracy : 2°C	
Voltage	Accuracy: +/-0.1V	
Re Calibration Method		
Inspection Period	Every 3 Years by Manufacturer (or inspected by arranged methods)	
Industrial Standard		
Casing and Painting Materials	Aluminium Alloy Die Castings 12 (Epoxy Polyester Powder Coating)	
IP Rating	$\geq$ IP66	
Operating Temperature	-40 to 85 °C	
Fire Proof	Approved	
Certificates	CE, London Underground Product Approval	



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