GridHub (5311)



Supply	180V to 265VAC 50Hz
Maximum power consumption	5VA @ 230VAC via 9VDC adapter
Communication network	Spread Spectrum 900MHz licence free ISM band
Enclosure	35mm H x 141mm W x 110mm D
Material	Flame retardant to UL94-V-0
Weight	190 gms
Indicators:	

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Web:	Flashes while acquiring server. Steady when link established.
TX:	Transmitting to GridNode.
RX:	Good data from GridNode.
Err:	Flashes if error detected.
2 x Ethernet LEDs:	Link active. Data packet received or sent.

Inputs:

3 CTs (Current Transformer inputs)*	0.333VRMS (scaled)
Measurement range as a % of the CT rating	0.1% to 120%
Current Measurement accuracy	To be tested
Over Current tolerance	To be tested
Current Input frequency range**	46 to 350Hz
Power factor range	0.1 ind 0.5 cap
1 temperature probe input	-50°C to +125°C
Temperature Accuracy	± 2°C
Ethernet for connection to web	
* Inputs can be 3 single phase or 1 group of 3 phase ** 50Hz fundamental plus harmonics	

Misc:

Initial start-up time for GridHub*	< 5 seconds
Temperature Operating	-10°C to +65°C
Temperature Storage	-40°C to +85°C
Humidity	< 90% non-condensing
Laboratory Tests passed**	AS/NZS 4268: 2008
Data time stamping***	Set by central server via web
* EN 62053-21 ** Plus Amendment 1:2008 *** Error < 5 seconds	

Compliance: NZ Electricity Governance Rules – 1 May 2008

 	GridSpy detects any power loss exceeding 60 seconds
 	Changes to software, status or time setting recorded
 	Includes automatic self-checks such as memory integrity checking, hardware watchdog and auto-recovery.
 	A GridHub stores far more than the required "50 events between interrogations"
6 mths	The GridHub stores 2GB of sensor readings (over 6 months of data @ 1 sec resolution). MARIA requires only 5 days. Data is automatically syncronised to the cloud.
 	The GridHub syncronises its time to the cloud on powerup.
 	GridSpy presents your power usage data referenced to either New Zealand Standard Time or local time.

Inquiries and orders to: GridSpy Ltd.