

# GridNode (5313)



Supply	180V to 265VAC 50Hz
Maximum power consumption	7 VA @ 230VAC via 6VAC adapter
Communication network	Spread Spectrum 900MHz licence free ISM band
Enclosure Din rail compatible	DIN 43 880 Base 70 x 86mm. Lid 58mm.
Material	Flame retardant to UL94-V-0
Wall mounting kit	Optional
Casing to waterproof level IP67	Optional external enclosure
Weight	100 gms

## Inputs:

6 CTs (Current Transformers inputs)*	0.333VRMS (scaled)
Measurement range as a % of the CT rating	0.1% to 120%
Over Current tolerance	> 2,000%
Current Measurement accuracy	± 1%
Wattage Measurement accuracy**	± 2%
Current Input frequency range***	46 to 350Hz
Power factor range	0.1 ind .. 0.5 cap
2 pulse counting inputs****	Max count rate 100Hz.
1 temperature probe input	-50°C to +125°C
Temperature Accuracy	± 2°C

\* Inputs can be 6 single phase or 2 groups of 3 phase or a blend. Configure via Web.  
 \*\* Voltage Monitoring Option required for accuracy (otherwise 230V assumed)  
 \*\*\* 50Hz fundamental plus harmonics  
 \*\*\*\* Internal pullup to 3V

## Misc:

Initial start-up time for GridNodes*	< 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

\* EN 62053-21  
 \*\* Plus Amendment 1:2008

## Compliance:

NZ Electricity Governance Rules – 1 May 2008  
 Gridspy with Voltage Monitoring is MARIA Class 2 Compliant.  
 (assuming < 5% Harmonic Voltage distortion)

- 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 synchronised to the cloud.
- The GridHub synchronises its time to the cloud on powerup.
- GridSpy presents your power usage data referenced to either New Zealand Standard Time or local time.

## Use With:



15A / 60A CT



200A CT



400A / 600A  
or 1000A CT



1000A - 5000A  
Flex CT