

Guardian™

Wireless Socket Recorder

Inputs:

AC Voltage	0 to 150 volts continuous per phase
AC Current	200 amps RMS
Sample Rate	256 samples/cycle (15,360 per second)

Channels:

Voltage	2 channels
Current	2 channels

Measured Quantities Per Cycle:

RMS Voltage	Volts
RMS Current	Amps
Real Power	Watts
Apparent Power	VA
Reactive Power	VARs
Phase Angle	Degrees
Power Factor	Watts/VA
Displacement PF	cos (phase angle)
Power Usage	kWh, kVARh, kVAh

Accuracy:

Voltage	0.33% of full scale
Current	1.0% of full scale
Power	1.0% of full scale
Phase Angle	1.0° of full scale
Power Factor	±0.01
Displacement PF	±0.01

Harmonics:

Voltage	to the 51st
Current	to the 51st
Measures	magnitude, phase, THD

Communications:

Type, Standards	Bluetooth® Wireless, USB
Remote	Mobile Phone Option

Information Storage:

Interval graph	6.9 MB
Significant Change	1000 records
Flicker	1000 records
Waveform Capture	1.7 MB

Record Settings:

Interval Graphs	1 cycle to 4 hours, user selected, stop-when-full, or wrap around memory modes
Significant Change	1V to 8V in 1V steps
Flicker Settings	User-defined, or conform to IEEE 1453/IEC 61000-4-15, and IEEE Std. 141
Waveform Capture	Voltage and current threshold, periodic capture

Power Supply Requirements:

Power Consumption	Less than 2.5 watts
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Environmental:

Operating Temp	- 20°F to + 135° F
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Physical Dimension:

Size	4.625" X 6.75"
Weight	3.6 lbs

Power Fail Operation:

The recorder can operate without any input voltage for up to 30 minutes. This allows it to record down to 0 volts on all channels during power outages.