



GUARDIAN® METER SOCKET RECORDER

FEATURES & BENEFITS:

The Guardian power analyzer is designed for use in a 200A residential meter base with the existing revenue meter. In addition to RMS voltage and current in the 2SX+, the Guardian comes standard with the ability to measure and monitor power factor, demand, phase angle, and harmonics to the 51st, in an all-weather, self-contained unit.

Cell Modem or WiFi (Optional):

Stream your data immediately to the cloud for instant access with your web browser or connect to the Guardian directly with ProVision for live readings or to download recordings. Use WiFi to connect locally with a laptop or tablet.

Large Memory Capacity:

Record power and harmonics at high resolution to meet IEEE 519-2022 requirements with up to 1 GB of onboard memory. Capture more PQ problems with enhanced waveform triggering and extended memory.

New Features:

E-mail & text alerts, network time sync, WiFi, Cell Modem, CBEMA / ITIC recording, enhanced waveform capture, and PQ Canvass.



GUARDIAN

INPUTS	AC Voltage	0 to 150 VAC per channel	INFORMATION STORAGE	Data Storage	16 MB (Standard), 128 MB, 512 MB, or 1 GB (optional)	
	AC Current	200 amps RMS		Significant Change	1000 records	
	Sample Rate	256 samples/cycle/channel		Flicker	1000 records	
CHANNELS	Voltage	2 channels	RECORD SETTINGS	Interval	1 cycle to 4 hour interval user selected, stop-when-full, or wrap around memory modes	
	Current	2 channels		Graphs	1 V to 8 V in 1V steps	
MEASURED QUANTITIES PER CYCLE	RMS Voltage	Volts	POWER SUPPLY	Significant Change	1 V to 8 V in 1V steps	
	RMS Current	Amps		Flicker Settings	User-defined, or conform to IEEE 1453/IEC 61000-4-15, and IEEE Std. 141	
	Real Power	Watts		Waveform Capture	Voltage and current threshold, periodic capture, waveshape, event cross-triggers	
	Apparent Power	VA			Power Consumption	Less than 5 Watts
	Reactive Power	VARs		ENVIRONMENTAL	Operating Temp	-20°F to +135°F
	Phase Angle	Degrees			Shock	60 Hz to 2 kHz, acceleration 25 G
	Power Factor	Watts/VA			PHYSICAL DIMENSION	Vibration
	Displacement PF	cos (phase angle)		Weight		2.1 lbs
	Power Usage	kWh, kVARh, kVAh		Size		4.625" x 6.75"
ACCURACY	Voltage	0.33% of full scale	POWER FAIL OPERATION	Super capacitor ride through power for notifications.		
	Current	1.0% of full scale				
	Power	1.0% of full scale				
	Phase Angle	1.0°				
	Power Factor	±0.02				
HARMONICS	Displacement PF	±0.02				
	Voltage	to the 51st				
	Current	to the 51st				
COMMUNICATIONS	Measures	Magnitude, phase, THD				
	Standard	USB 2.0				
	Options	WiFi or Internal Cell Modem				