Eagle™ 200

Power Quality Kit (400A meter base applications)

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Eagle 200™

Power Quality Kit

Inputs:

AC Voltage	0 to 300 VAC
AC Current	0 to 1000 amps
Sample Rate	256 samples per cycle per channel

Channels:

Voltage	2 channels
Current	2 channels

Measured Quantities Per Cycle:

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

Accuracy:

Voltage	0.33% of full scale
Current	1.0% of full scale w/o probe
Power	1.0% of full scale w/o probe
Phase Angle	1.0° of full scale w/o probe
Power Factor	±0.02 w/o probe
Displacement Power Factor	±0.02 w/o probe

Power Fail Operation:

The recorder can operate without any input voltage for up to 2 hours. This allows it to record down to 0 volts on all channels during power outages.

Harmonics:

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

Communications:

Type, Standards	Bluetooth Wireless, USB

Information Storage:

Interval Graphs	6.9 MB
Significant Change	1000 records
Flicker	1000 records
Waveform Capture	3.75 MB

Record Settings:

Interval graphs	1 cycle to 4 hour interval User selected, stop-when-full, or wrap around memory modes
Significant Change	1v to 8V, in 1V steps
Flicker	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	60-600VAC Channel 1 to Common (47-63Hz)
Power Consumption	1.5 Watts max, 9VA max at 600VAC

Environmental:

Operating Temp	-30° to +55° C (- 22°F to + 131° F)
Shock	60 Hz to 2 KHz, acceleration 25G
Vibration	10Hz to 60Hz, amplitude 1.8mm
Max Altitude	2.0km (6560 ft), derated above 2.0km

Physical Dimension:

Size	5 3/8" L x 3 1/8" W x 1 1/4" H
Weight	less than 1 lb
Case	NEMA 4X