

Eagle™ 220, 330, 440

2, 3, and 4 Channel 600 Volts/5000 amps Power Quality Recorders



Applications

220:
Residential

330:
Office
Industrial
Commercial
Distribution

440:
Office
Industrial
Commercial
Distribution
Transformers
3 Phase with neutral monitoring

Features & Benefits

• 600V CAT III	Allows use in a wide range of monitoring environments
• Compact size	Can be placed in small enclosures and fits in your shirt pocket
• Bluetooth® wireless communications	Stay safe with wireless data behind closed panel covers
• Durability/Reliability	NEMA 4X housing allows for use in outdoor environments

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Inputs:

AC Voltage	0 to 600 VAC
AC Current	0 to 5000 Amps with probes
Sample Rate	15,360 samples per second/channel; 256 samples per cycle

Channels:

Voltage	2, 3, or 4 channels
Current	2, 3, or 4 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 w/o probe
Power	1.0% of full scale w/o probe
Phase Angle	1.0° w/o probe
Power Factor	±0.02 w/o probe
Displacement PF	±0.02 w/o probe

Safety:

Pollution Degree 2	600V CAT III
UL listed	IEC 61010

Harmonics:

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

Communications:

Type, Standards	Bluetooth® Wireless, USB
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Information Storage:

Interval graph	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:

Voltage	60-600VAC Channel 1 to Common (47-63Hz)
Power Consumption	1.5 Watts max, 9VA max at 600VAC

Environmental:

Operating Temp	- 22°F to + 131° F
Humidity	Less than or equal to 85%
Shock	60 Hz to 2 KHz, acceleration 25G
Vibration	10Hz to 60Hz, amplitude 1.8mm
Max Altitude	2.0 km (6560 ft), derated above 2.0 km

Physical Dimension:

Size	4.375" L x 3.375" W x 1.812" H
Weight	less than 1 lb
Case	NEMA 4X

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.