PowerLyzer

Specifications

Parameter Measurement	Range	Resolution
Voltage	0 to 550 VAC	+/- 0.2%
Current	0 to 9999 Amps	+/- 0.5%
Blink Voltage	0 to 108 VAC	+/- 2.0%
Blink Duration	1/2 to 4 Sec	1/2 Cycle
Power Loss	4 Sec or Greater	1 Second
Blink / Power Loss Storage	200 Events	
Phase Angle	0 to 359.5°	+/- 0.5%
kW	-9999 to +9999 kW	+/- 0.5%
kVAr	-9999 to +9999 kVAr	+/- 0.5%
kVA	0 to 9999 kVA	+/- 0.5%
Power Factor	-0.5% to +0.5%	+/- 0.5%
Line Frequency	50 Hz or 60Hz	+/- 0.02 Hz
Phase Rotation	ABC or ACB	
Harmonics	1st through 63rd	

Recording

Trend Parameters Voltage, Current, Neutral, Phase Angle **Derived Parameters** kW, kVAr, kVA, Power Factor Trend Period (Minutes) 15, 5, 2, 1 65536 Max Records 1, 2 or 3 **Number of Measured Phases** 200 Events Blink / Power Loss Storage 4 Cycle, 4 Second, 1 Minute Min-Max Voltage Storage

Parameters

Environmental Specifications

Condition	Range
Operating Temperature	-40°F to 165°F
Humidity (Non-Condensing)	0 to 100%
Operating Voltage	95 to 530 VAC
Current Input Measurement Range	0 to 1000 mA
Power Usage	½ Watt
Enclosure	Nema 4

Valquest Systems, Inc.

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Voltage Configurations:

- 120 Single Phase
- 120/240 Split Phase
- 120/208 Y
- 240 Y
- 240 4 Wire Delta
- 240 Corner Gnd Delta
- 277/480 Y
- 480 Corner Gnd Delta

Reads 1, 2 or 3 Phase:

- Voltage
- Current
- kW and kWH
- kVAr and kVArH
- Phase Angle
- Power Factor
- Line Frequency

Power Quality Monitor:

Records Blinks, Brown Outs & keeps 3 types of Min-Max information. The Powerlyzer also captures Voltage & Current waveforms & calculates Harmonics out to the 63rd per Phase.

Trend Recording:

Records in 1, 2, 5 or 15 minute intervals. Recording capacity depends on voltage configuration & recording period. It ranges from 5 to 682 days.

PowerLyzer

Power Analyzer, Trend Recorder & Test Meter

Power Quality Meters For Industrial, Commercial & Residential Applications



Residential Meter Base Power Quality Recorder

The PowerLyzer MB

Voltage Configuration:

kWH Meter Accuracy

Verification

120/240V Three Wire Single Phase

Reads 2 Phases:

Voltage, Current, kW & KWH, kVAr & kVArH, kVA, Phase Angle, Power Factor & Line

Frequency.

This Meter Base recorder is intended for use with Residential voltages and meters. It uses the same Powerlyzer Companion Software and has all of the same features and resolution.

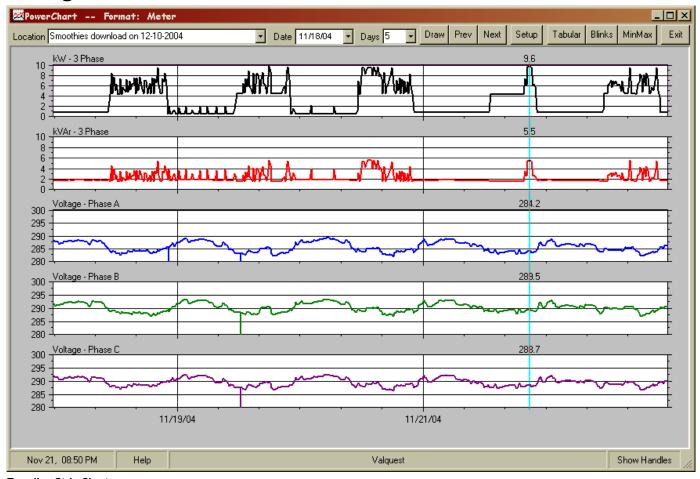


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PowerLyzer Companion Software

Trending



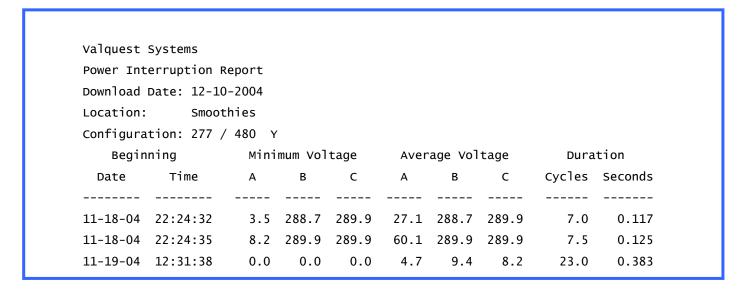
Trending Strip Chart

Sample Data showing several strips. Note the presence of blinks. One is on A Phase only. The others appear on all three Phases.

The actual numeric values for the blinks are shown in the tabular report below.

Note: All trend data can be shown and printed in tabular or built as a Microsoft Excel file.

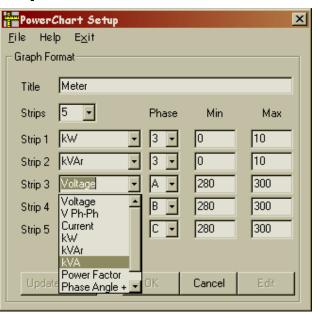
In addition, a comprehensive Voltage Min-Max report is also generated.



PowerLyzer

Companion Software

Strip Chart Selection



Power Chart Setup

Trending strips can be set up in any combination of electrical parameters desired.

A, B, C, or 3 phase information may be selected.

Neutral current is also available.

Upper and lower limits for each strip are completely variable.

Each combination can be saved as a separate format file for later use with fresh data.

Comprehensive Help screens are always available.

Oscillography

Note: Neutral current waveform showing strong 3rd and 9th harmonics.

