

SINGLE-PHASE GENERAL PURPOSE POWER ANALYZER 2551



The 2551 Power Analyzer incorporates the ideal combination of precision, speed and ease-of-use in an instrument so economical it can be on every bench.



**Industries
Served**

Automotive

Consumer Products

Lighting

Medical

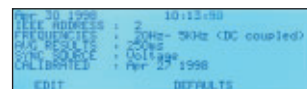
Regulatory
Agencies

The six-key front panel has four 'soft' keys whose menus simplify the selection of measurements. In addition to numerical results, the 2551 captures waveforms with true 400-point precision. These waveforms can be displayed or directly output at full resolution to a PCL printer. Power and amplitude measurements with an accuracy of 0.1% are automatically synchronized to the fundamental frequency. Peak measurements of voltage, current and power include continuous, inrush, and history modes, plus an accumulation mode for W-Hr, A-Hr, and VA-Hr. The 2551 also provides a glitch mode that captures and displays waveform with the highest anomaly.

QUALITY AND RELIABILITY

XITRON Technologies, founded in 1990, is the premier source of precision power testing and measurement instruments for industrial manufacturing and medical electronics. Using the latest digital signal processing and circuitry, XITRON's sophisticated technology gives our customers the edge in design verification and product manufacturability. XITRON is ISO-9001, EN46001 registered and FDA (GMP 820) compliant.

- Low Cost/High Performance
- Measures and displays power, frequency, harmonics, THD, CF, K-Factor, Triplens, Inrush, distortion & glitches
- Up to 1500 volts peak, 40 amps peak internally & up to 10,000 amps with the use of External Current Transducers
- DC and 20mHz – 100kHz Frequency Range
- Graphics Display shows numerical results, waveforms, bar graphs & history plots
- 16-bit A-D takes up to 220k samples/second
- Simple 6-key user interface
- PCL/Text Printer output, IEEE488 interface



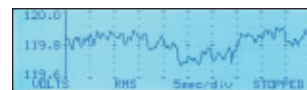
"Soft" keys simplify setup menus.



Numeric results can be displayed in large type.

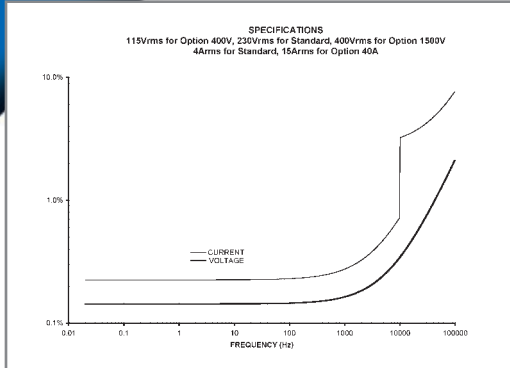


Harmonics shown as bar graphs or listings of values.

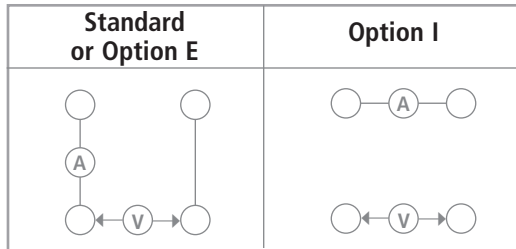


See measurements over time such as this voltage history.

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Voltage & Current Accuracy



Input Configuration

Opt-E	Max Volts	Max Current
-	400V	8A
E	950V	40A
I	1500V	40A

Ordering Information

For Example: To order a base configuration unit that has External Current Transducer capability, can measure Voltages up to 950V Peak and can also measure up to 40 Amps Peak when configured for Internal then order as follows: **2551 - E - 950V - 40A**

CONDENSED SPECIFICATIONS

(Contact XITRON for complete specifications)

Voltage: Range

950Vpk, 400Vpk or 1500Vpk (see ordering information)

Internal Current: Range

8Apk, 40Apk (see ordering information)

External Current Transducers (Options E or I only)

Current: Current

Current: 10Arms for 50ms, 2.5Arms continuous, 5Apk measurable

Scaling (In=Out) = +0000.00A = 00.0000A through +\-9999.99A = 9999.99A

Current: Voltage

Voltage: 25Vpk for 50ms, 2.5Vrms continuous, 2.5Vpk measurable

Scaling (In=Out) = +0000.00V = 00.0000V through +\-9999.99V = 9999.99V

Resolution

0.05% of range

Voltage & Current Accuracy

(See chart to the left)

Frequency Measurement

20 mHz to 80 kHz, 0.01%

Crest Factor

Range: 1 to 999

Accuracy: from peak results

Harmonic & Spectrum Analysis

Frequency Range: 20 mHz to 50 kHz

Typical THD, harmonic and phase accuracy at line frequencies of 50/60 Hz:

THD accuracy: 0.1%

Harmonic accuracy: 0.05%

Phase accuracy: 0.1°

Waveforms

Actual, Peak Capture, Distortion content and Glitch Capture

History

V&A (rms, peak, envelope, THD), Watts, VAR, PF

User-selectable time base from 400 msec/div to 1 day/div

Resolution 1/20 division

Physical

Power input: 80-265 VRMS autoselect, 40 - 400 Hz @ 25 VA max

Size: (HxWxD) 4-1/2" x 11-1/2" x 10-1/2"

Weight: 6 lbs (2.7 kg)

Operating range: 0°C to 45°C, <85% RH @ 40°C non-condensing

Storage range: -30°C to 65°C <95% RH @ 40°C non-condensing

Digital Interfaces (standard)

IEEE488.1: Full talk/listen capabilities

Parallel Printer: IEEE1284, unformatted text or PCL compatible

Warranty

Two years



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