



PA2553 Three-Phase General Purpose Power Analyzer

The PA2553 Power Analyzer features the ideal combination of precision, speed and ease-of-use in an instrument so economical it can be on every bench.

The six-key front panel has four 'soft' keys with menus that simplify the selection of measurements. In addition to numerical results, the PA2553 captures waveforms with 200-point precision. These wave-forms can be displayed or directly output at full resolution to a PCL printer. Power and amplitude measurements with a base 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.

INDUSTRIES SERVED

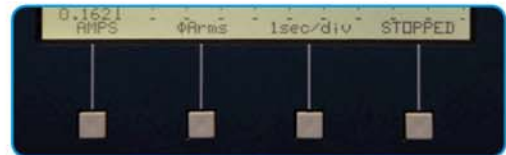
Automotive HVAC Power Quality Monitoring



» Power Supply Manufacturers » Process Control

For UK & European sales, support, service and deliveries:
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- » Low Cost/High Performance
- » Measures and displays power, frequency, harmonics, THD, CF, K-Factor, Triplens & Inrush
- » Up to 1500 volts peak, 40 amps peak internally & up to 10,000 amps with the use of External Current Transducers
- » DC and 20mHz - 80kHz 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 included
- » 1ø2W, 1ø3W, 3ø3W and 3ø4W configurable using the same wiring



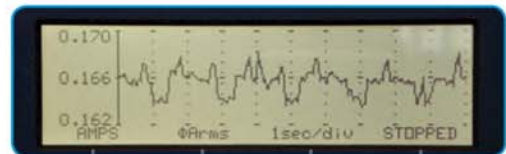
"Soft" keys simplify setup menus.



Numeric results can be displayed in large type.

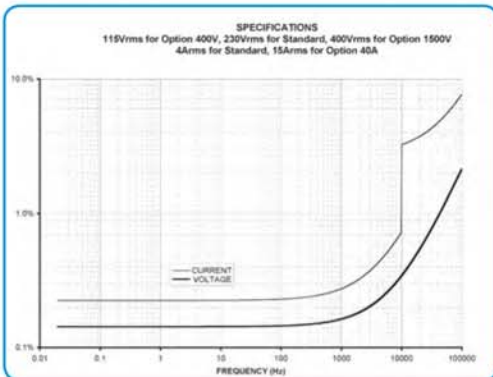


Harmonics shown as bar graphs or listings of values.



See measurements over time such as this voltage history.

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Voltage & Current Accuracy

ORDERING INFORMATION

| PART# | DESCRIPTION |
|--------------------|----------------------------|
| 822-2553-400V-8A | Three Phase Power Analyzer |
| 822-2553-400V-40A | Three Phase Power Analyzer |
| 822-2553-950V-8A | Three Phase Power Analyzer |
| 822-2553-950V-40A | Three Phase Power Analyzer |
| 822-2553-1500V-8A | Three Phase Power Analyzer |
| 822-2553-1500V-40A | Three Phase Power Analyzer |
| Option E | External CT Capable |
| RB-255X | Rack Mount Adapter |

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CONDENSED SPECIFICATIONS

(Contact Powertek for complete specifications)

VOLTAGE: Range

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

INTERNAL CURRENT: Range

8Apk, 40Apk (see ordering information)

EXTERNAL CURRENT TRANSDUCERS (Option E 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 left)

FREQUENCY MEASUREMENT

20 mHz to 80 kHz, 0.01%

CREST FACTOR

RANGE: 1 to 99

ACCURACY: from peak results

HARMONIC AND SPECTRUM ANALYSIS

FREQUENCY RANGE: 20 mHz to 50 kHz

Typical accuracy at line frequencies of 50/60 Hz:

THD: 0.1%

Harmonic: 0.05%

Phase: 0.1°

WAVEFORMS

Actual, Peak Capture and Distortion content

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" x11-1/2" x10-1/2"

WEIGHT: 8 lbs

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: IEEE1284, unformatted text or PCL compatible

WARRANTY

Two Years

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