

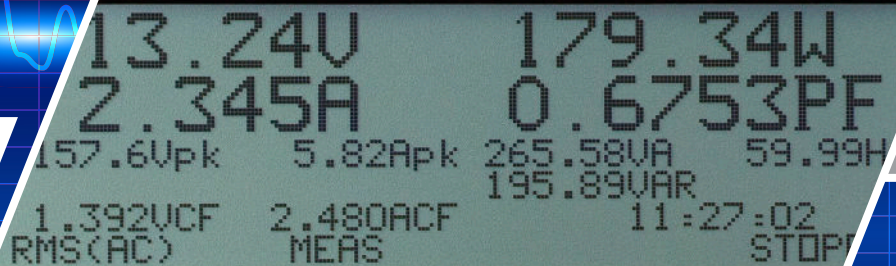
2553 Three-Phase

General Purpose Power Analyzer

The 2553 Power Analyzer features the ideal combination of precision, speed and ease-of-use in an instrument so economical it can be on every bench.

Quality and Reliability

Vitrek, founded in 1990, is the premier source of precision power testing and measuring equipment for industrial and consumer product development and manufacturing. Vitrek's sophisticated technology provides companies the edge in design verification and product manufacturability.



13.24V 179.34W
2.345A 0.6753PF
157.6Vpk 5.82Apk 265.58VA 59.99H
1.392VCF 2.480ACF 195.89VAR 11:27:02
RMS(AC) MEAS STOP

The six-key front panel has four 'soft' keys with menus that simplify the selection of measurements. In addition to numerical results, the 2553 captures waveforms with 200-point precision. These waveforms 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.

- > 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

25
Years Industry
EXPERTISE

INDUSTRIES SERVED

- Automotive • HVAC • Power Quality Monitoring • Power Supply Manufacturers
- Process Control • Magnetics

2553 Three-Phase General Purpose Power Analyzer

Test Like You
MEAN IT



Condensed Specifications

(Contact Vitrek 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

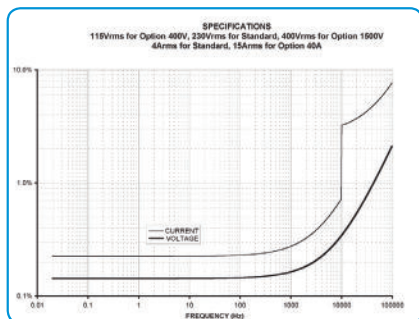
Unit is supplied with one VitrekT5 universal
external power supply, 100-240Vrms, 50-
60Hz, with a 2.5mm 12VDC output plug and a
three prong IEC320 AC inlet receptacle, plus a
three-prong AC power cord.

WARRANTY

Two Years

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
UG2553	Additional Operating Manual Set
892-RB-255X	Rack Mount Adapter
LS-2553	Standard 2553 Connection Kit



Voltage & Current Accuracy

XITRON
By **VITREK**

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CE

Please visit www.vitrek.com for ordering information.