

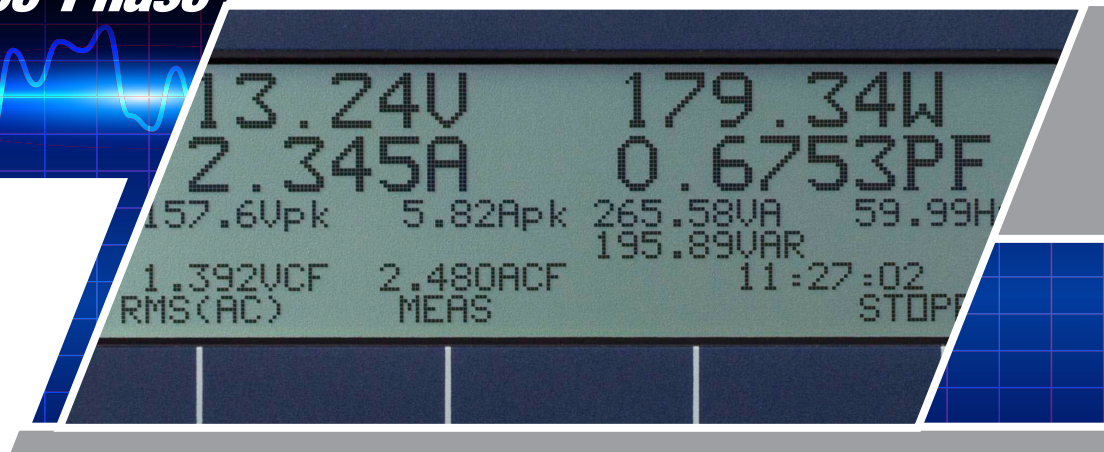
## 2553 Three-Phase

## 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

Vitretek, 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.



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

[www.valuetronics.com](http://www.valuetronics.com)

### 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

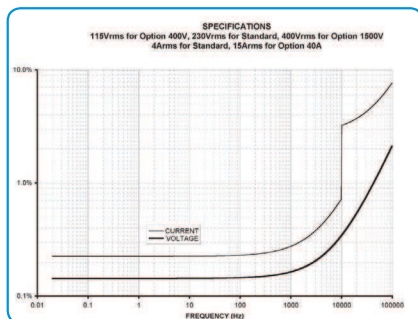
Unit is supplied with one VitrekT5 universal  
external power supply, 100-240Vrms, 50-  
60Hz, with a 2.5mm 12VDC output plug and a  
three prong IEC320 AC inlet receptacle, plus a  
three-prong AC power cord.

## 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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Please visit [www.vitrek.com](http://www.vitrek.com) for ordering information.