1- and 2-Channel Advanced Power Analyzers

The 2801 and 2802 Advanced Single- and Two-Channel Power Analyzers combine an unprecedented feature set with an ideal combination of precision, speed and ease-of-use in an instrument so economical it can be on every bench.

With an extended measurement range from micro-amps to hundreds of amps and millivolts to kilovolts, the 2801 and 2802 are the ideal analyzers for standby power or Energy Star testing. In addition to numerical results, the 2801 and 2802 captures waveforms with true 512-point precision. Results and waveforms can be displayed, read via the communication ports, or sent directly at full resolution to a USB printer. Power and amplitude measurements with an accuracy of <0.1% are automatically synchronized to the fundamental frequency. Peak, RMS, rectified, and DC measurements of voltage, current and power are provided including continuous, inrush, startup and history modes, plus an integration mode for W-Hr, A-Hr, VA-Hr, as well as integrated average power. (Channels can be operated synchronously or independently on the 2802) The 2801 and 2802 also provide waveform peak and glitch capture modes.

> Highest Performance-to-Cost ratio in the industry
> Up to 2000V peak and 150A peak measurable internally (external CT capable)
> Two channels for independent or synchronous measurements, including input/output efficiency and loss (2802 only)
> Base accuracy <0.08%. Current and voltage accuracies specified to less than 1mArms and 1Vrms respectively (<0.2%)
> Measures and displays volts, current, power, frequency, harmonics (to the 100th), THD, PF, CF, K-Factor, Triplens, inrush, distortion, glitches, and much more
> Integrated line switch and inrush waveforms

> Source or load measurements with wiring loss and voltage burden compensation
> DC charge and discharge measurements
> Frequency Range: DC and 20mHz – 200kHz
> Graphics display shows numerical results, waveforms, bar graphs, startup & history charts with zoom & scroll features
> 16-bit A/D converters at 235ksp
> 12 User-configurable digital I/O
> USB Flash drive support for data logging
> Communications interfaces include GPIB (IEEE488), RS-232, USB (host and device)
> Suitable for AC, DC, 1-phase 3-wire, 2-phase 3-wire, 3-phase 3-wire, in out synchronous, or independent measurements (2802 only).

INDUSTRIES SERVED
- Automated Production Testing
- Ballast Testing
- Consumer Products
- Engineering Labs
- Instrument Maintenance & Repair
- Peak Power & Consumption Measurements
- Product Compliance Testing
- Test Labs
Condensed Specifications

Accuracy specifications valid for 1 year for ambient temperatures within 5°C of calibration temperature.
(Contact Vitrek for complete specifications)

**VOLTAGE RANGE (MEASURABLE)**
2000Vpk (850Vrms) max. continuous

**INTERNAL CURRENT RANGE (MEASURABLE)**
150Apk (30Arms) max. continuous

**EXTERNAL CURRENT TRANSUCERS (MEASURABLE)**
35Vpk (15Vrms) max. continuous

**VOLTAGE AND CURRENT ACCURACY**
See charts to the left.

**FREQUENCY MEASUREMENT ACCURACY**
0.005%

**CREST FACTOR ACCURACY**
V: (50mV + 0.01% of pk rms)/RMS value
A: (50uA + 0.01% of pk rms)/RMS value

**HARMONIC ACCURACY (VOLTAGE & CURRENT)**
0.02%

**WAVEFORMS**
Actual, Peak Capture, Distortion, and Gilch capture

**CHARTS, WITH ZOOM AND SCROLL**
History, Startup and Inrush

**LINE SWITCH**
Max Open Voltage: 720Vpk (480Vrms)
Max Surge Current: TBD
Max On Current: 10Arms
Turn On Phase: 1° resolution

**DIGITAL INTERFACES**
GPIB (IEEE-488), USB (host and device), RS-232, Digital IO

**PHYSICAL**
Power Input: 12VDC @ 1.5A minimum output
Size: (HxWxD) 4.7"x 13.8" x 9.5" (11.94cm x 35.05cm x 24.13cm)
Weight: 7.5 lbs (3.4 kg)
Operating Range: 0°C to 55°C, <95% RH non-condensing
Storage Range: -20°C to 70°C, <95% RH non-condensing

Unit is supplied with one Vitrek T5 universal external power supply, 100-240 Vrms, 50-60Hz, with a 2.5mm 12 VDC output plug and a three-prong IEC320 AC inlet receptacle, plus a three-prong AC power cord.

**WARRANTY**
Two years

**ORDERING INFORMATION**

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Please visit www.vitrek.com for ordering information.