## AE <br> <br> Advanced Test Equipment Corp. <br> <br> Advanced Test Equipment Corp. www.atecorp.com

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## POWER ANALYZERS \& WATTMETERS | MODEL 2800

## Wideband Spectrum Power Analyzer Precision Analysis That Delivers

- Available as 1-, 2-, 3-, 4-, 5-, 6-phase instrument
- 18 bit resolution. High accuracy at $10 \%$ full scale
- Simple to operate, most settings in 2 steps (2 touches)
- Extremely fast data transfer; up to 3400 values per seconds
- 4 current inputs: $1 \mathrm{~mA}-1 \mathrm{~A}, 15 \mathrm{~mA}-5 \mathrm{~A}, 1 \mathrm{~A}-50 \mathrm{~A}$, Shunt
- Optional interfaces: Ethernet, RS-232 / USB, IEEE-488
- Interface commands for fast data transmission
- Optional high precision, broadband, current sensors 0.004\%
- 6 analog inputs and 2 frequency inputs, 12 analog outputs
- Wide angle, touch-screen TFT display (800 x 480 pixels)
- Standard-, Logging-, Transient-, Power-Speed measure modes
- High DC precision for solar applications
- Voltage Ranges: 0.3V to 1000V
- Two optional operating softwares under Windows
- Software to read data from four 108A-6
- Simple servicing, modular concept, pre-calibrated inputs
- 4G Byte Memory for storing measurement data
- Individual settings for every phase and all phases


## Reliable, Simple And Intuitive To Use Delivers Accurate Measurements For Modern, Efficient Power Electronics. Measures 280 electrical quantities on every phase. Energies, harmonics, motor- and transformer values, power sums, power ratios, analog- and frequency inputs can be displayed or read via interface at any time.

## POWER \& PERFORMANCE

The Infratek 108A High Precision Power Analyzer is available in 1-, 2-, $3-, 4$-, 5 -, or 6 - phase versions. All voltage inputs 0.3 V up to 1500 V peak and all current inputs ( 1.5 mA up to $1 \mathrm{~A} ; 15 \mathrm{~mA}$ up to $5 \mathrm{~A} ; 1 \mathrm{~A}$ up to 40A; and shunt inputs 60 mV up to 6 V are potential free and exhibit low noise, high common mode suppression, excellent DC-stability, Wide frequency range ( $\mathrm{DC}-2 \mathrm{MHz}$ ) and very low self-heating on current inputs.

## SIMPLE OPERATION

There is no need to fiddle with dccompensation, or changing current plug-ins. All is built into the input sections of the Power Analyzer, ready for measurements. It is simple to use, your intuition will guide you to operate the Power Analyzer touch screen correctly. Almost all setting changes are accomplished with two touches on the display screen or two with the wireless mouse.


## 4 OPERATING MODES <br> STANDARD MODE

280 quantities per phase are measured without gap and are continuously updated. Values can be displayed on four display pages, can be saved in internal memory, or can be transferred via Interface to a computer.

## LOGGING MODE

Fast measurements or for long-time averaging of data. It is possible obtaining 6 datasets of a 6 -phase instrument within 20 ms or 6 datasets per 10 minutes.
From every phase you obtain 8 values: frequency, rms current, rms voltage, power, power factor, apparent power, energy Wh, and apparent energy VAh.

## TRANSIENT MEASURE MODE

You can catch current-, voltage-, and power wave forms in a start-up on transient mode up to 6 phases simultaneously or you can view all the wave forms at a critical operating point. Sections of the wave forms can be expanded by simply touching one of the 4 "Zoom Sectors".

## POWER-SPEED MEASURE MODE:

This measure mode analyzes the performance of devices such as electric cars. In 20 ms intervals the following data are stored in internal memory: rms current, rms voltage, power, apparent power, energy, apparent energy, and rpm of a shaft. At end of measurement, (maximum 11 seconds) data versus time are displayed, can be expanded to view details, or can be stored.


