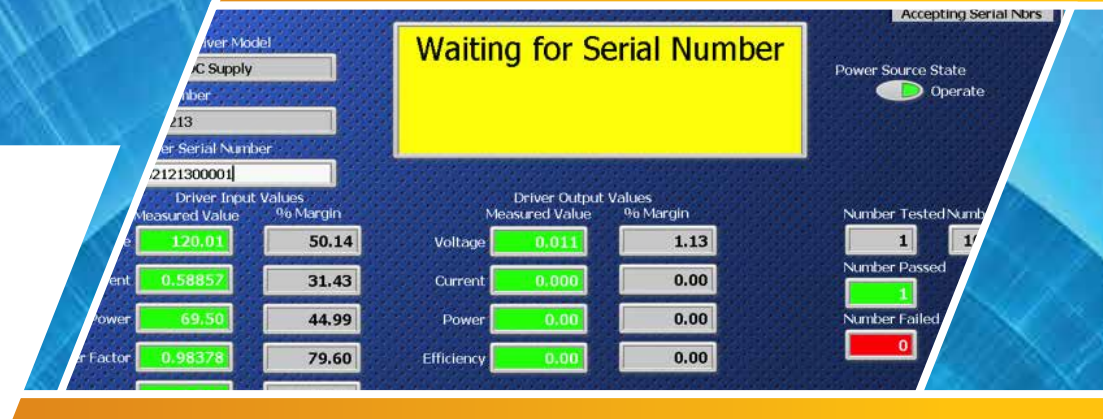


Portable Test To Limits System

The Test to Limits system combines the XiTRON Advanced Single or Dual-Channel Power Analyzer, the XT9812 DC Electronic Load and a Kikusui PCR500M AC Power Source which provides the end user with a complete portable, test system for production, research and development, quality and general product testing.

Quality and Reliability

XiTRON Technologies, founded in 1990, is the premier source of precision power testing and measuring equipment for industrial and consumer product development and manufacturing. XiTRON's sophisticated technology provides companies the edge in design verification and product manufacturability. XiTRON is ISO 9001:2008 certified.



The Test to Limits system was designed around the 2801/2802 Advanced Single and Dual-Channel Power Analyzers as they incorporate the ideal combination of precision, speed and ease-of-use in a power analyzer.

With an extended measurement range from micro-amps to hundreds of amps and millivolts to kilovolts, the 2801/2802 is the ideal analyzer for LED, power supply, efficiency, standby power or ENERGY STAR testing. In addition to numerical results, the 2801/2802 analyzer captures waveforms with true 512-point precision. 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.

The XiTRON XT9812 and XT9812B series programmable DC electronic loads are a new generation product designed to test LED drivers, power supplies or battery development. A special circuit that emulates an LED has been designed within the XT9812 series to support LED Driver applications. The XT9812 series have wide application from production lines for solid state lighting, cell phone chargers, cell phone batteries, electronic vehicle batteries, switching power supplies, linear power supplies, and LED drivers.

The Test to Limits system uses the PCR-500M Series which is a 500VA AC power supply with the ease of a variable auto transformer or an automatic voltage regulator (AVR) and the usefulness of a multifunctional AC power supply.

The Test to Limits system can be used by lighting manufacturers/designers, research institutes, automotive electronics, aeronautics and astronautics, maritime, solar cell fuel, cell test and measurement applications.

INDUSTRIES SERVED

- Automated Production Testing • Ballast Testing • Consumer Products • Engineering Labs
- Peak Power & Consumption Measurements • LED Driver Testing • Power Supply Testing
- Product Compliance Testing • Test Labs

25
Years Industry
EXPERTISE

Portable Test To Limits System

Test Like You
MEAN IT

ORDERING INFORMATION

PART #	DESCRIPTION
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Contact factory	
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2801/2802 Power Analyzer's Features

- > Highest performance-to-cost ratio in the industry
- > Up to 2000V peak and 150A peak measurable
- > 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, THD, PF, CF, K-Factor, triplens, inrush, distortion, glitches, and more.
- > Integrated, phase-programmable 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 plots
- > 16-bit A/D converters at 235ksps

XT9812 DC Electronic Load Features

- > Six high speed operation modes: CC,CR,CV,CW,CC+CV,CR+CV
- > Over current, over voltage, over power, overheating and polarity reversal protection
- > Battery test and short-circuit test functions
- > LED mode for LED driver power testing, steady reading and capable of simulating capacitance sensitive drivers.

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- > LED mode for LED driver power testing, steady reading and capable of simulating capacitance sensitive drivers.
- > Edits arbitrary waveforms in list function.
- > USB serial interface

The PCR500M AC Power Source Features

- > Compact design, only 214W X 124H X 350D mm
- > Versatile output modes - Three modes (AC, DC, AC+DC) are available. *1. The frequency range is up to 500 Hz.

Test to Limits Software

- > Designed for the bench or the production floor
- > Multi-level user capability for security or test result integrity
- > Fully user-programmable max and min test limits
- > Multiple product types or profiles can be stored for quick retrieval
- > All results stored in an SQL database and results can be exported to a text or Excel-compatible file for test results and/or testing statistics

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