



Venable Instruments is pleased to introduce the next generation of precision measurement solutions for power supply design.

The Venable **Model 8800** Frequency Response Analyzers combine the latest analog and digital technology with advanced DSP to provide versatile test and analysis functions. This single, comprehensive hardware and software system performs many sophisticated test functions and boasts an expanded bandwidth of **10μHz to 5, 20 or 40MHz** along with 2 input channels protected to 600 Vpk and a digital data port to interface to a target processor.

Venable Instruments incorporates the latest CPLD technology to unleash the power of a dedicated processor, performing all data acquisition and analysis functions. A separate processor handles all the communication functions. Optimum performance derives from the use of storage within the CPLD, which enables synchronous buffering between the processor and the analog hardware. The digital interface "Sync" signal provides synchronization between analog and digital hardware. The **8800** series performs simultaneous analysis on both analog input channels and the digital target processor, reliably capturing all data. The digital interface can be disabled, via software, to use the analyzer in a standard 2 channel, analog only, configuration.

The **8800** series, combined with Venable's renowned and proprietary K-Factor based software, now known as **Stability Analysis™**, is your most complete, accurate, easy to use system for power supply design. Our Spice™ like modeler and 3 circuit topologies provides the design engineer with a single measurement solution, eliminating trial and error and increasing productivity. Results and graphs are easily exported in jpeg or .ven file format for presentation graphics or off-line number crunching." Others can view the .ven files via our READER, downloadable at no cost.

This truly versatile instrument, complete with its wide range of applications is available to you packaged in a tough, yet portable case, weighing just 12 pounds. Engineers and scientists now have the speed and technology for production, R&D Labs, academia, or field operations bundled into a compact and affordable system, the Venable **Model 8800** series.

Venable, a pioneer in stability analysis for over 35 years, continues to support the test and measurement customers with cutting edge instruments and analysis software.

"World Leader in Stability Analysis Systems and Engineering"

Description:	Venable 8800 Series, 2 channel, DFRA, 5, 20 and 40MHz Models
<i>Digital Analyzer:</i>	
Interfaces	1 ² C and Sync Out (3.3V)
Integration Cycles	1-10
Measurement frequency range:	10mHz – 1MHz
Supported Processors	Contact Venable
<i>Analog Analyzer:</i>	
Measurement frequency range:	10μHz to 5, 20 or 40MHz
Input Configuration:	Single-ended floating (600V)
Input impedance selectable:	50 ohms or 1 Meg ohm (default)
Measurement Accuracy:	± 0.03dB + .1dB/MHz; ± 0.4deg + 1deg/MHz
Measurement Technique	Narrowband DFT
Delay Time: 0-100 sec	
Integration Time: 20msec to 100ksec	
Integration Cycles: 1-9999 cycles	
Input coupling:	DC, automatic DC offset cancellation
Input Range:	10mV to 500Vpk Full Scale in 11 ranges, Auto-ranging
Dynamic Range:	120 dB
CMRR/IMRR:	120 dB
Max. Input	±500Vpk
Max Input Withstand Voltage	±600Vpk
Over-range alarms	LED indicator
<i>Generator:</i>	
Frequency Range:	10μHz to 5, 20 or 40MHz (sine wave) 10μHz to 1MHz (square wave)
AC Amplitude	1mV to 10V
DC Bias	±10V, 10mV Steps
Modes:	Single Frequency, sine sweep, and linear sweep steps
Log Sweep	0.1 – 2000 Steps per decade 10μHz – 5MHz step
Output Amplitude	Dynamically adjust output to maintain a constant input level through Venable software servo
Compression:	Switchable 50 ohms/2 ohms
Output Impedance:	Single-ended floating
Output configuration:	600V
Isolation from Chassis Ground:	
<i>System:</i>	
PC Interface:	IEEE-488 standard interface for Windows in USB 2.0
Auxiliary Output:	12Vdc/400mA 4.8W for accessories
Application software:	Venable Stability Analysis™ v5 for WinXP/7, 8 & 10
Real time display update	Each point is plotted as acquired
Data Analysis:	Gain margin, phase margin, impedance; Components: R, L, C, Z
Power Requirements:	90 to 264Vac, 48 to 62Hz, 30VA
Weight/Dimensions	12 Lbs. - 17"x10"x3.5"



Front View



Back View



Rack Mount View

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