Model 3215

VENABLE instruments
a Venable company

Venable Instruments introduces a new family of "High Frequency" test instrumentations. The Venable **Model 3215** Frequency Response Analyzer combines the latest analog and digital technology with advanced digital signal processing to provide versatile test and analysis functions. This single comprehensive unit performs many sophisticated test functions. Boasting features as a bandwidth of .01Hz to 15MHz, 2-channels, 10 Vpk input and using Venable's renowned v4.0 software, the 3215 is your most complete, accurate and easy to use system for phase/gain and impedance measurements. Operating through IEEE-488 bus, the Venable system imports/exports to MATLABTM and Excel™ and saves Bode/Impedance Plots in .jpeg or .ven file format.

Venable Instruments incorporates the latest FPGA technology to unleash the power of a dedicated DSP, performing all data acquisition and analysis functions. A separate processor handles all the interface functions. Optimum performance derives from the use of distributed RAM within the FPGA, which enables asynchronous buffering between the processors and the analog hardware. The 3215 performs simultaneous analysis on both input channels, reliably capturing all data. This truly versatile instrument, complete with its wide range of applications is available to you packaged in a tough, yet portable case, weighing just 10 pounds. Engineers and scientists now have the speed and technology for production, R&D Labs, academia, or field operations bundled into one compact and affordable system, the Venable **Model 3215**.

Venable, a pioneer in stability analysis for 26 years, continues to support the test and measurement customers with cutting edge instruments and analysis software. The **Model 3215** brings an economical option to Venable's lineup of top quality instrumentation.

Description	Venable 3215
System Frequency Range:	.01Hz to 15MHz
Generator Amplitude	1mVac to 10Vac
DC Bias	±10Vpk
Generator Isolation	Referenced to chassis ground
Generator Modes	Single frequency, sine sweep, sweep with manual step control, amplitude servo
Output Amplitude Compression	Dynamically adjust output to maintain a constant input level
Input Channels	2, Ch. 1: Differential or Single-ended (Ground referenced) , Ch. 2: Single-ended (Ground referenced)
Meas. Technique	Narrowband DFT
Bandwidth Resolution	4 Selectable Bandwidths 100 mHz, 400 mHz, 3 Hz, 20 Hz
Input coupling	AC and DC
Input Range	1mV to 10V pk in 9 ranges
Input Accuracy	±.05dB, ±.25° typical @ 10kHz
Max. Input	±10Vpk
Max Input Withstand Voltage	±30Vpk
Overrange alarms	LED indicator
PC Interface	Implements IEEE-488 standard interface for Windows in PCMCIA, PCI, USB
Auxiliary Power	±12Vdc/50mA for accesories
Power Requirements	90 to 264Vac, 48 to 62Hz, 30VA
Display	Venable v4.0 Software Interface
Real time display update	Each point is plotted as acquired
Data Analysis	Gain, phase, angle, real, imaginary, R, L, C, Z
Operating System	Venable v4.0 software for Win: 95/98/NT/2000/ME/XP

Model 3225

VENABLE instruments
a Venable company

Venable Instruments introduces a new family of "High Frequency" test instrumentations. The Venable **Model 3225** Frequency Response Analyzer combines the latest analog and digital technology with advanced digital signal processing to provide versatile test and analysis functions. This single comprehensive unit performs many sophisticated test functions. Boasting features as a bandwidth of .01Hz to 25MHz, 2-channels, 10 Vpk input and using Venable's renowned v4.0 software, the 3225 is your most complete, accurate and easy to use system for phase/gain and impedance measurements. Operating through IEEE-488 bus, the Venable system imports/exports to MATLABTM and Excel™ and saves Bode/Impedance Plots in .jpeg or .ven file format.

Venable Instruments incorporates the latest FPGA technology to unleash the power of a dedicated DSP, performing all data acquisition and analysis functions. A separate processor handles all the interface functions. Optimum performance derives from the use of distributed RAM within the FPGA, which enables asynchronous buffering between the processors and the analog hardware. The 3225 performs simultaneous analysis on both input channels, reliably capturing all data. This truly versatile instrument, complete with its wide range of applications is available to you packaged in a tough, yet portable case, weighing just 10 pounds. Engineers and scientists now have the speed and technology for production, R&D Labs, academia, or field operations bundled into one compact and affordable system, the Venable **Model 3225.**

Venable, a pioneer in stability analysis for 26 years, continues to support the test and measurement customers with cutting edge instruments and analysis software. The **Model 3225** brings an economical option to Venable's lineup of top quality instrumentation.

Description	Venable 3225
System Frequency Range:	.01Hz to 25MHz
Generator Amplitude	1mVac to 10Vac
DC Bias	±10Vpk
Generator Isolation	Referenced to chassis ground
Generator Modes	Single frequency, sine sweep, sweep with manual step control, amplitude servo
Output Amplitude Compression	Dynamically adjust output to maintain a constant input level
Input Channels	2, Ch. 1: Differential or Single-ended (Ground referenced) , Ch. 2: Single-ended (Ground referenced)
Meas. Technique	Narrowband DFT
Bandwidth Resolution	4 Selectable Bandwidths and DC 100 mHz, 400 mHz, 3 Hz, 20 Hz
Input coupling	AC and DC
Input Range	1mV to 10V pk in 9 ranges
Input Accuracy	±.05dB, ±.25º typical @ 10kHz
Max. Input	±10Vpk
Max Input Withstand Voltage	±30Vpk
Overrange alarms	LED indicator
PC Interface	Implements IEEE-488 standard interface for Windows in PCMCIA, PCI, USB
Auxiliary Power	±12Vdc/50mA for accesories
Power Requirements	90 to 264Vac, 48 to 62Hz, 30VA
Display	Venable v4.0 Software Interface
Real time display update	Each point is plotted as acquired
Data Analysis	Gain, phase, angle, real, imaginary, R, L, C, Z
Operating System	Venable v4.0 software for Win: 95/98/NT/2000/ME/XP