

Input/Output Impedance Measurement Set

The Input/Output Impedance Measurement Set enables the engineer to perform input impedance, output impedance and conducted audio susceptibility measurements on systems while the systems are under operational power. The Measurement Set is used in conjunction with the Venable Frequency Response Analyzer System hardware and software. The Measurement Set consists of a power amplifier, step down isolation transformer and interconnecting cables.

The Measurement Set extends the Frequency Response Analyzer oscillator drive to include high current/low impedance applications. All Venable System features are fully operational including servo. The power amplifier has one manual gain adjustment but does not require calibration. The automatic Venable System performs all precision control and measurement. The amplifier utilizes rugged self-protection circuits for routine overloads.

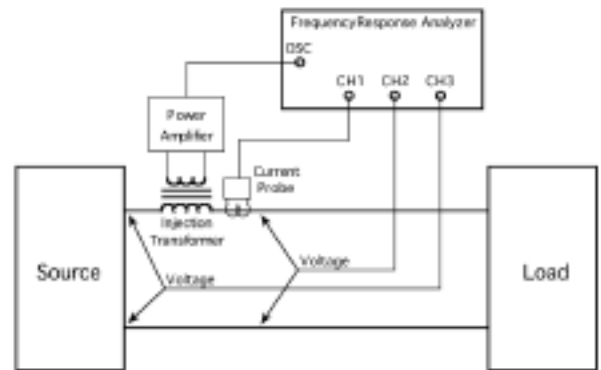
The isolation transformer enables direct injection of test signals into the customer's systems while under full power and loading. The transformer is designed to carry substantial DC without core saturation for undistorted drive. Measurement Sets are optionally available in 50 amp (IOZ-50) and 100 amp (IOZ-100) ratings depending upon the current requirements of the system under test.

The customer provides either a current probe or low ohms series resistor for current sense. Measured impedances at any frequency are conveniently available on the screen or printer.

Input/Output Impedance Measurement Sets

- Output Power — 100 Watts into 2.4 ohms
- Output Voltage (Power Amplifier) — 16 Vrms into 2.4 ohms
- Output Voltage (Secondary of Transformer) 7.7 Vrms into 0.6 ohms
- Direct Current through transformer without core saturation:
 - IOZ-50 — 50 amps
 - IOZ-100 — 100 amps
- Power Requirements 115 VAC 60 Hz 4 amps

Impedance Measurement Specifications



Caution: The minimum gain of this amplifier is 15 dB (5.62). If you use the Venable software servo function with your impedance measurements make sure to take this gain figure into account when you limit the Max AC volts Out in the software to prevent over-driving and/or damaging the circuit under test.

IOZ-50 Input/Output Impedance Measurement Set

Measures Input/Output Impedance and Conduct Audio Susceptibility. Options include High Power Amplifier, Injection Transformer for use with DC Currents up to 50 amps, Cables, and Manuals.

IOZ-100 Input/Output Impedance Measurement Set

Measures Input/Output Impedance and Conduct Audio Susceptibility. Options include High Power Amplifier, Injection Transformer for use with DC Currents up to 100 amps, Cables, and Manuals.

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8656 SH 71 West, Cuesta Centre, E-Building, Austin, Texas 78735

Ph 512.949.3100 or 800.262.2522 Fax 512.949.3151 www.venable.biz email info@venablecorp.com