

GIGA-TRONICS

8003

The Giga-tronics 8003 Precision Scalar Analyzer combines the 90 dB wide dynamic range of a scalar network analyzer with the accuracy and linearity of a dedicated power meter. Unlike conventional scalar analyzers that rely on logarithmic amplifiers, the 8003 utilizes switched linear gain stages providing over 100 dB of maximum gain. This architecture allows it to make extremely accurate single-sensor power measurements from -70 dBm to +20 dBm over a frequency range of 10 MHz to 40 GHz. It offers comprehensive source control, capable of driving sweepers from Giga-tronics, HP, Wiltron, and Marconi.

SPECIFICATIONS

General

Interfaces	IEEE-488 (GPIB)
Display	Color CRT

Measurement Characteristics

Frequency Range	10 MHz to 40 GHz (sensor dependent)
Dynamic Range	90 dB (using a single sensor)
Power Range	-70 dBm to +20 dBm

Amplitude and Power Specifications

Minimum Measurable Power	-70 dBm
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Source Control and Calibration

Compatible Signal Generators	Giga-tronics, HP, Wiltron, and Marconi sweepers
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Inputs & Outputs

Sensor Inputs	3 (A, B, R)
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TECHNOLOGY

Switched linear gain stages

APPLICATIONS

Precision scalar network analysis and power measurement

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.