

GIGA-TRONICS

8652A

The Giga-tronics 8652A is a dual-channel universal power meter from the 8650A Series, designed for comprehensive measurement of modern communications systems. It accurately measures CW, peak, and average power for TDMA, GSM, and CDMA signals, including IS-95 and third-generation 10 MHz wideband formats. With a wide frequency range up to 40 GHz and high-speed GPIB capabilities exceeding 1,750 readings per second, the 8652A offers advanced time-saving features such as automatic time gate setting and direct crest factor measurement.

SPECIFICATIONS

General

Interfaces	GPIB
Compatible Sensor Series	Giga-tronics 80300A, 80350A, 80400A, 80500A, 80600A, 80700A

Measurement Capabilities

Number of Channels	2 (Dual input)
Measurement Modes	CW power, peak power, average power
Signal Compatibility	TDMA, GSM, CDMA (IS-95 and 3G 10 MHz wide band)
Power Range	-70 to +47 dBm (depending on sensor)
Measurement Speed (CW)	> 1,750 readings/s (over GPIB)
Measurement Speed (Modulated)	> 300 readings/s
Advanced Analysis Features	Automatic time gate setting, direct crest factor measurement, statistical power measurement analysis

Accuracy and Linearity

Instrumentation Linearity	±0.02 dB
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Interfaces and Connectivity

Remote Control Interfaces	GPIB
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Calibration Reference

Reference Power Output	1.00 mW (0 dBm)
Reference Frequency	50 MHz
Reference Connector	Type-N (female), 50 Ω

TECHNOLOGY

RF / Microwave

APPLICATIONS

Wireless communications testing, complex modulated signal analysis, CW and peak power measurement

