

GIGA-TRONICS

80401A

The Giga-tronics 80401A is a high-performance modulated power sensor designed for CW and modulated power measurements over a frequency range of 10 MHz to 18 GHz. It is engineered to accurately measure signals with complex modulation formats, making it highly suitable for modern wireless communication systems when used in conjunction with compatible Giga-tronics power meters.

SPECIFICATIONS

General

Interfaces	Proprietary multi-pin sensor connector for Giga-tronics power meters
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Physical

Power Supply	Powered by host power meter via sensor cable
Operating Temperature	0 to +50 °C °C

Measurement Ranges & Power Specifications

Frequency Range Minimum	10 MHz
Frequency Range Maximum	18 GHz
Power Measurement Range (CW)	-67 dBm to +20 dBm
Power Measurement Range (Modulated)	-60 dBm to +20 dBm
Maximum Continuous Input Power	+23 dBm (200 mW)
Maximum Peak Input Power	+30 dBm (1 W) for < 10 µs

Sensor Technology & Architecture

Sensor Detection Type	Diode
Measurement Modes Supported	CW, Modulated

RF Port Characteristics

Input Impedance	50 Ohms
RF Connector Type	Type N
Connector Sex	Male
Maximum SWR (10 MHz - 2 GHz)	1.12
Maximum SWR (2 GHz - 12.4 GHz)	1.22
Maximum SWR (12.4 GHz - 18 GHz)	1.37

Meter Compatibility & System Integration

Calibration Factor Storage Type	Internal EEPROM
Compatible Power Meter Models	Giga-tronics 8540B, 8540C, 8650A, 8650B

TECHNOLOGY

Diode Power Sensor

APPLICATIONS

RF and Microwave 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.