

KEYSIGHT TECHNOLOGIES (AGILENT HP)

N1913A

The Keysight (formerly Agilent) N1913A is a high-performance single-channel average power meter in the EPM Series. It offers a frequency range of 9 kHz to 110 GHz and a wide dynamic range of -70 to +44 dBm, depending on the connected sensor. Designed as a direct drop-in replacement for the E4418B, it provides backward code compatibility with 436A and 437B models while significantly improving measurement speed (up to 400 readings/sec with E-Series sensors). Although a single-channel meter natively, it can be expanded to three channels by connecting up to two U2000 Series USB power sensors via optional USB hosts. It features a high-resolution color LCD and standard GPIB, USB, and LAN (LXI-C) connectivity.

SPECIFICATIONS

General

Interfaces	GPIB, LAN (LXI-C), USB
Display	High-resolution color LCD
Warm-up Time	30 minutes

Physical

Operating Temperature	0 to 55 °C
Dimensions (W×H×D)	212.6 × 88.5 × 348.3 mm
Weight	3.6 kg (without battery) kg

General Information

Device Type	Average Power Meter
Form Factor	Half-rack width, 2U high
Number of Channels	1 standard (expandable to 3 with optional USB hosts)

Measurement Specifications

Supported Frequency Range	9 kHz to 110 GHz (sensor dependent)
Supported Power Range	-70 to +44 dBm (sensor dependent)
Display Units (Absolute)	Watts, dBm
Display Units (Relative)	Percent, dB
Display Resolution	Selectable 1.0, 0.1, 0.01, 0.001 dB (log mode); 1 to 4 digits (linear mode)

Performance and Accuracy

Instrumentation Absolute Accuracy	±0.02 dB (logarithmic) / ±0.5% (linear)
Measurement Speed	Up to 400 readings/sec (with E-Series sensors)

Power Reference (1 mW)

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

Sensor Compatibility

Legacy Sensor Support	Keysight 8480 and E-Series (E4410/E9300) power sensors
USB Sensor Support	Keysight U2000 Series (via optional USB hosts)
Maximum Number of Connected Sensors	3 (1 primary sensor + 2 USB sensors via option)

Display and User Interface

Display Type	High-resolution color LCD with numeric keypad
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Interfaces and Rear Panel

LXI Compliance	LXI Class C
Analog Recorder Output Range	0 to 1 V

Power and Battery

Battery Type	Rechargeable Lithium-ion (optional)
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Environmental and Operating Conditions

Storage Temperature Range	-40 °C to +70 °C
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Regulatory and Compliance

Code Compatibility	Keysight E4418B, 436A, 437B
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Power

Line Frequency	47 to 63 Hz (90 to 264 VAC) / 400 Hz (90 to 132 VAC)
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Compliance

EMC Compliance	IEC 61326-1 / EN 61326-1 / CISPR 11
Safety Compliance	IEC 61010-1 / EN 61010-1

Inputs & Outputs

Trigger Connectors	BNC (female)
Trigger Level	TTL compatible
Recorder Output Connector	BNC (female)
Analog Recorder Output Impedance	1 kΩ (typical)

Performance

Compatible Sensor Families	Keysight 8480, N8480, E-Series, and U2000/U2020/U2050/U2060 Series USB
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Connectivity

Video Output	VGA (Rear panel)
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TECHNOLOGY

RF/Microwave Power Measurement

APPLICATIONS

Average power measurements, automated test equipment (ATE), field service, calibration and repair, frequency/power sweeps.

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