KEYSIGHT TECHNOLOGIES (AGILENT HP)

# N1912A

The Keysight (formerly Agilent/HP) N1912A is a dual-channel P-Series power meter designed for high-performance RF and microwave power measurements. When paired with N192xA wideband power sensors, it provides a 30 MHz video bandwidth and continuous 100 MSa/s sampling for precise time-domain and statistical analysis, including peak power, average power, peak-to-average ratio, pulse profiling, and CCDF measurements. It maintains extensive backward compatibility with legacy 8480 and E-Series sensors for conventional average power measurements across a wide dynamic range and frequency span.

## SPECIFICATIONS

### General

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|---|---|
| Interfaces | USB, LAN, GPIB |
| Display | Color LCD |

### Physical

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|---|---|
| Dimensions (W×H×D) | 212.8 x 88.5 x 348.3 mm mm |

### Overview and Sensor Compatibility

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|---|---|
| Number of Channels | 2 |
| Frequency Range (Sensor Dependent) | 9 kHz to 110 GHz |
| Power Range (Sensor Dependent) | -70 to +44 dBm |
| Compatible Sensor Series | Keysight N192xA Wideband, E-Series (excluding E932x), 8480 Series |
| Internal Zero and Calibration | Supported (zero and calibrate while connected to DUT with N192xA sensors) |

### Accuracy and Measurement Performance

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|---|---|
| Power Reference Output Level | 1.0 mW (0 dBm) |
| Power Reference Frequency | 50 MHz |

### Wideband and Peak Power Capabilities

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|---|---|
| Maximum Video Bandwidth | 30 MHz (with N192xA sensors) |
| Maximum Sampling Rate | 100 MSa/s continuous |

### Measurement Functions

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|---|---|
| Base Measurements | Peak, Average, Peak-to-Average Ratio |
| Pulse Measurements | Rise time, fall time, pulse width |
| Statistical Analysis | High-speed CCDF (Complementary Cumulative Distribution Function) |
| Math Functions | Difference and ratio (A-B, B-A, A/B, B/A) |

### Connectivity and Interfaces

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|---|---|
| Remote Control Interfaces | USB, LAN, GPIB |

### Inputs & Outputs

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|---|---|
| Trigger Input | BNC (female), TTL compatible |
| Trigger Output | BNC (female), TTL compatible |
| Power Reference Connector | Type-N (female), 50 Ω |

### Measurement Specifications

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|---|---|
| Display Resolution | Selectable from 1.0, 0.1, 0.01, and 0.001 dB in logarithmic mode, or 1 to 4 digits in linear mode |
| Measurement Speed (Fast Mode) | Up to 1,500 readings per second (over GPIB) |

### Connectivity & Compliance

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|---|---|
| LXI Compliance | LXI Class C |

### Power

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|---|---|
| Line Frequency | 50 / 60 Hz and 400 Hz |

## TECHNOLOGY

RF/Microwave Power Measurement

## APPLICATIONS

Peak and Average Power Measurement, Pulse Profiling, Component Characterization