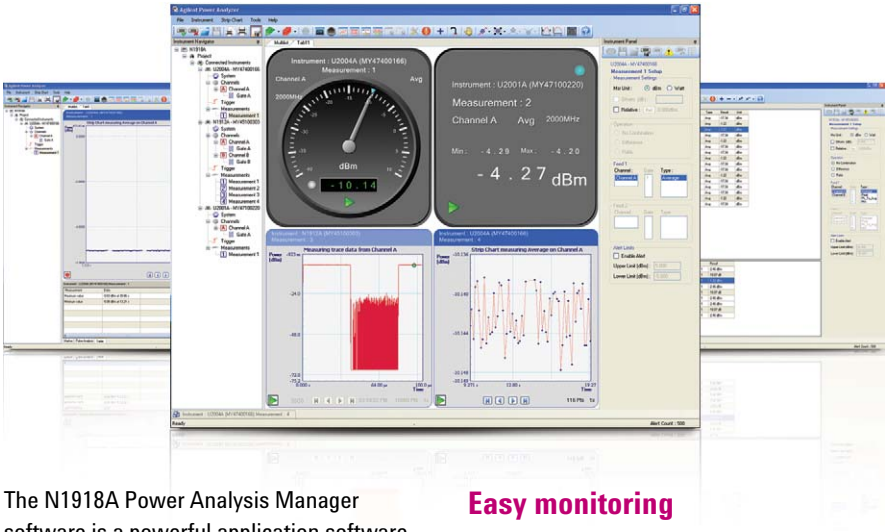
Agilent N1918A Power Analysis Manager

Data Sheet



Features

- Enhanced viewing on large PC display
- Intuitive GUI for easy navigation to functions
- Multiple flexible display formats
- List view of more than 20 channels, plus measurement math results
- Min/Max measurements
- Limit and alert settings[1]
- Data recording up to 7 days[1]
- Save/Load time-stamped measurement data
- 15-point pulse characterization[2]
- Overlay and waveform math[2]
- CCDF graph display and analysis[2]
- Remote instrument screen capture[2]

The N1918A Power Analysis Manager software is a powerful application software that complements the U2000 Series USB power sensors, and enhances capabilities of the N1911A/2A and N8262A P-Series power meters. There are two versions of the software: the basic Power Panel and advanced Power Analyzer. Power Panel comes bundled with the instruments while a free, fully functional trial version of the Power Analyzer is accessible for 30 days upon installation from the bundled CD. Power Analyzer's license, N1918A-Option 100, is available for purchase separately.

Easy navigation

The software's intuitive and user-friendly user interface helps you navigate to the functions you need quickly, easily.

Easy monitoring

Viewing on a PC screen helps you monitor measurements better. Further enhancing features include multiple display formats and list view of multiple devices.

Easy analysis

Study your signals better with functions such as Min/Max measurements, limit and alert notifications[1], measurement math, graph markers and gates. Advanced analysis of pulse signals can also be done with CCDF[2] and pulse characterization[2] functions. What's more: your saved measurement data is time-stamped for easier troubleshooting.

Easy remote control[3]

The N1918A gives you the flexibility to perform remote preset settings and instrument screen capture (N1911A/2A models) of the P-Series power meters.

1. Power Analyzer version
2. Applies to usage with P-Series power meters, Power Analyzer version
3. Applies to usage with P-Series power meters

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Power Panel and Power Analyzer comparison table

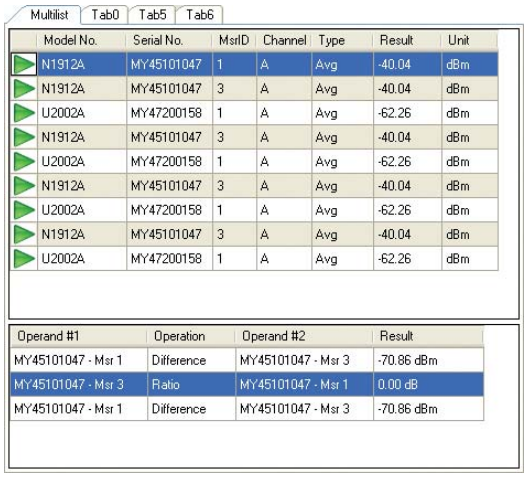
	Power Panel (basic)	Power Analyzer (advanced)
Measurement display functions		
Soft panel (digital) display	✓	✓ Enhanced with limit and alert notifications
Gauge (analog) display	✓	✓ Enhanced with limit and alert notifications
Strip chart display	✓	✓
Trace graph display[1]	✗	✓
Multiple tabs	✗	✓
Multiple displays per tab	✓ Up to 2 displays	✓ Up to 3 displays with U2000 Series; Up to 4 displays with P-Series
Multilist (List view of multiple channels)	✓	✓
Graph functions		
Single marker	✓ Up to 2 markers per graph	✓ Up to 10 markers per graph
Dual marker	✗	✓ Up to 5 sets of markers per graph
Graph autoscaling	✓	✓
Graph zooming	✓	✓
Measurement math	✓ Delta and ratio	✓ Delta and ratio
Pulse characterization functions[1]		
15-point pulse characterization	✗	✓
Gate measurement analysis	✗	✓ 4 per trace graph
Overlay graph	✗	✓
Waveform math	✗	✓ Delta, sum and ratio
Trigger level indicator	✗	✓ Applies to trace graph display
Statistical analysis function[1]		
CCDF graph display	✗	✓
Save/Load file functions		
Save measurement data (with timestamp)	✓ Applies to strip chart displays; up to 10,000 data points	✓ Applies to strip chart, trace graph[1] and CCDF graph[1] displays
Load measurement data	✓ Applies to strip chart displays	✓ Applies to strip chart, trace graph[1] and CCDF graph[1] displays
Data recording (with timestamp)	✗	✓ Applies to soft panel, gauge, strip chart and trace graph[1] displays; up to 7 days[2]
Save instrument screen image[1]	✓	✓
Limit and alert functions		
Limit and alert notifications	✗	✓
Alert summary	✗	✓
Instrument setting options		
Save/Restore instrument settings	✓	✓
Gate settings	✓	✓
FDO table parameters	✓	✓
Wireless preset settings[1] (eg. GSM, EDGE, cdma2000®, W-CDMA, Radar, Bluetooth®)	✓	✓
Print option		
Print application screen	✓	✓

1. Applies to usage with P-Series power meters
2. Recording time for trace graphs may vary based on trace graph settings

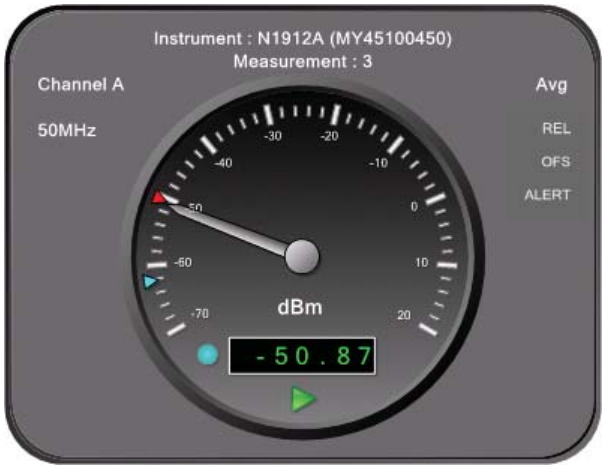
Various display types and functions

Soft panel display

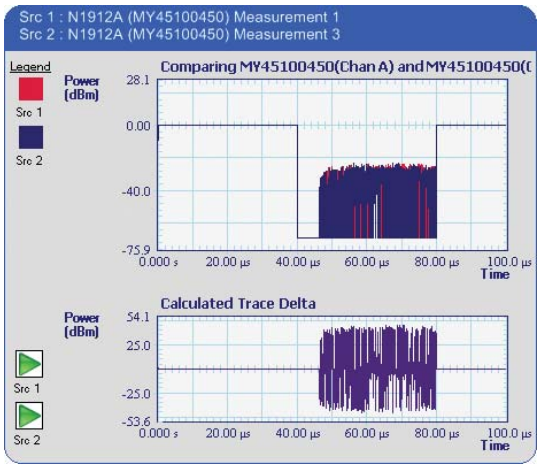
Multilist and multiple tabs



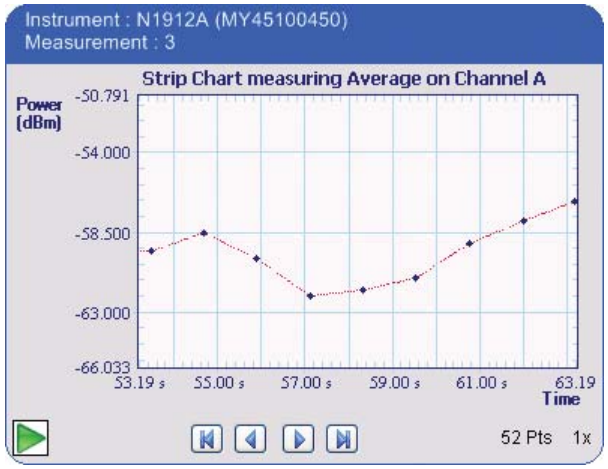
Gauge display



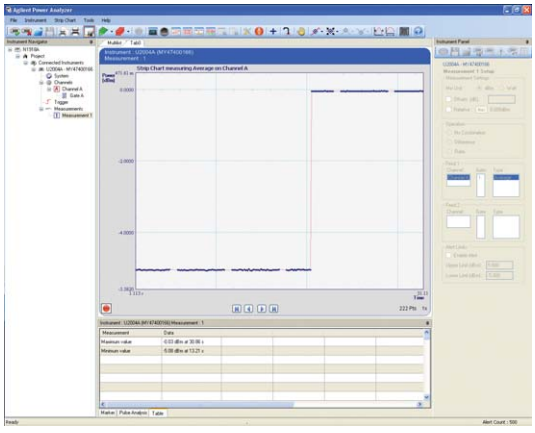
Overlay graph and waveform math



Strip chart display

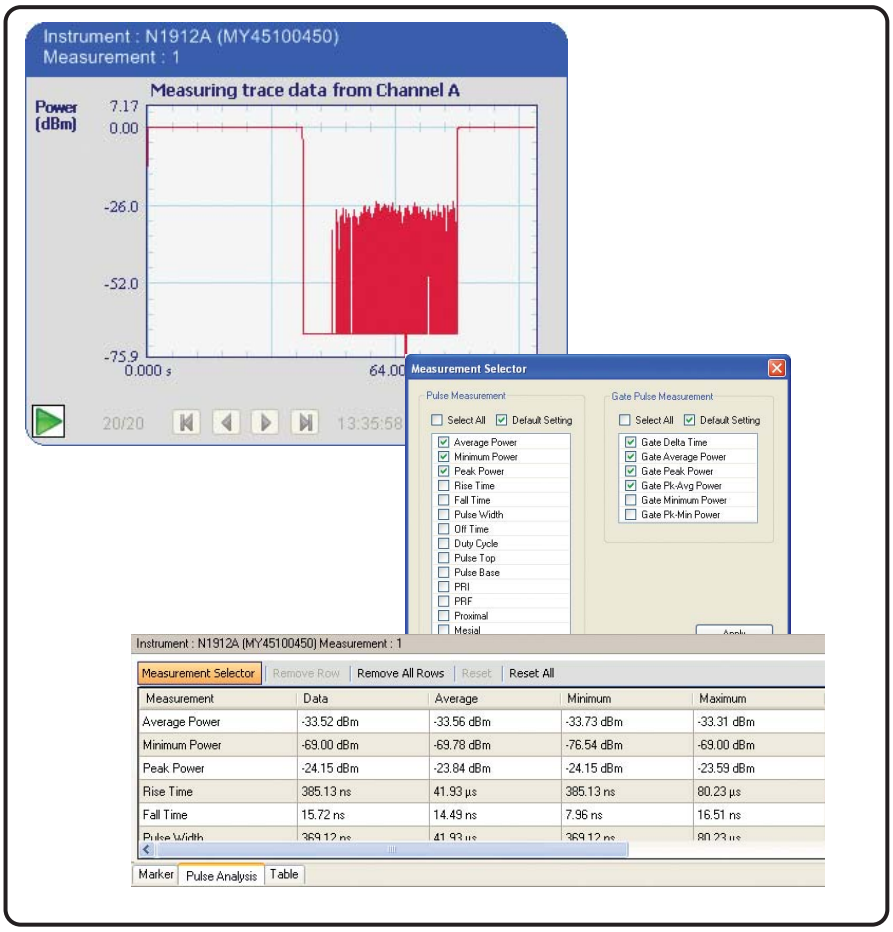


Data recording, limit and alerts, and Min/Max readings

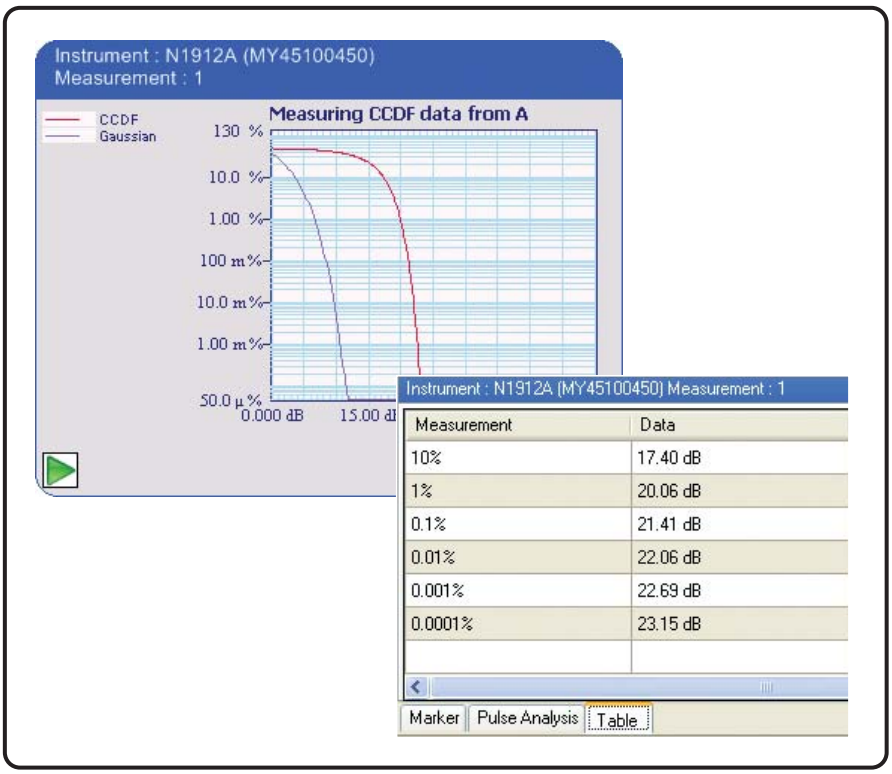


Various display types and functions (continued)

Trace graph display and 15-point pulse characterization functions



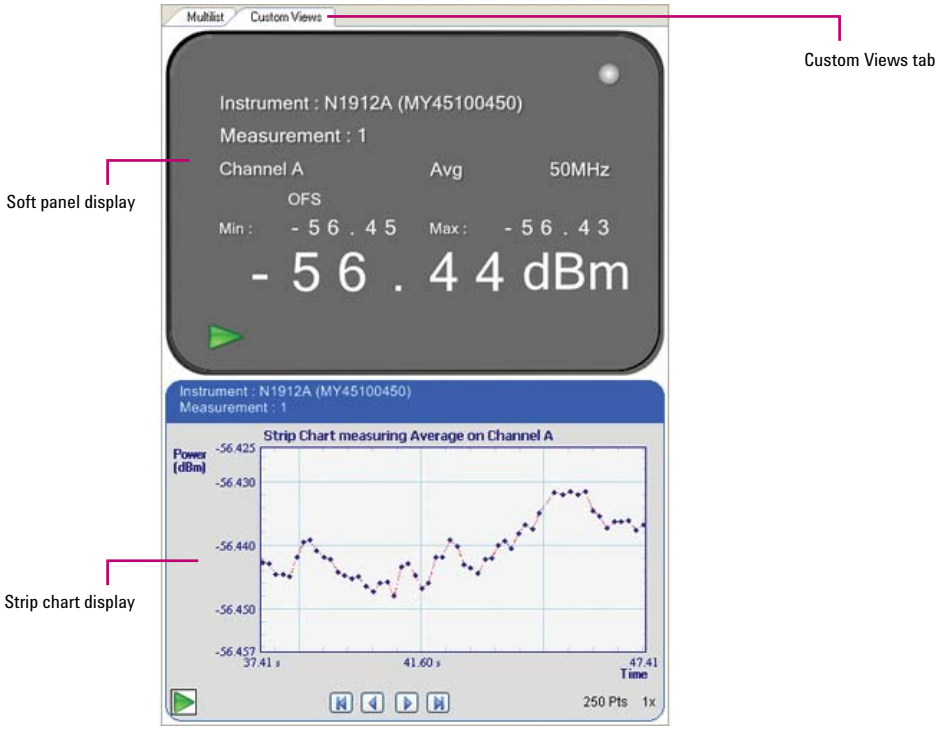
CCDF graph and analysis



Various display types and functions (continued)

Sample of 4 displays per tab on Power Analyzer

Sample of 2 displays per tab on Power Panel



Other software attributes

Range: Sensor-dependent, configurable in 1-kHz steps.

Relative: Displays all successive measurements relative to the last referenced value.

Offset: Allows power measurements to be offset by –100 dB to +100 dB, configurable in 0.001 dB increments, to compensate for external loss or gain.

Limits: High and low limits can be set in the range between –150.00 dBm to +230.000 dBm, in 0.001 dBm increments.

Preset default values: Channel Offset (dB) = 0, Duty Cycle Off, Frequency 50 MHz, AUTO Average, AUTO Range, Free Run Mode, dBm mode.

Zero[1]: For performing internal and external zeroing.

Duty cycle[1]: Duty cycle values between 0.001% to 99.999% can be entered in increments of 0.01% to display a pulse power representation of measured power. The following equation is used to calculate the displayed pulse power value: Pulse Power = Measured Power/ Duty Cycle

Display units:
Absolute: Watts or dBm
Relative: Percent or dB

Display resolution:
Resolution of 1.0, 0.1, 0.01 and 0.001 dB in log mode; one to four digits in linear mode.

Default resolution:
0.01 dB in log mode; three digits in linear mode.

1. Applies to usage with U2000 Series sensors

System requirements

Hardware	
Processor	**Desktop PC:** 1.3 GHz Pentium® IV or higher recommended **Laptop PC:** 900 MHz Pentium M or higher recommended
RAM	512 MB (1.0 GB or higher recommended)
Hard disk space	1.0 GB or more free disk space at runtime
Resolution	800 x 600 or higher (1280 x 1024 recommended)
Operating system and browser	
Operating system	Windows® XP Professional, service pack 2 or higher
Browser	Microsoft® Internet Explorer 5.1 (6.0 or higher recommended)
Software	
Agilent IO Libraries Suite[1]	Version 14.2 [2] or higher
Microsoft .NET Framework[3]	Runtime version 2.0
Microsoft Visual C++ 2005 Runtime Libraries[3]	Version 1.0 or higher

1. Available in Agilent Automation-Ready CD
2. Agilent IO Libraries Suite 15.0 is required if PC is running on Microsoft Windows Vista 32-bit edition
3. Bundled with N1918A Power Analysis Manager CD

Ordering information

Code	Description
N1918A-100	Items shipped as standard with each N1918A Power Analysis Manager CD: ▪ N1918A Power Analysis Manager Installation Guide ▪ Agilent Automation-Ready CD (contains Agilent IO Libraries Suite)

Related literature

Agilent N1918A Power Analysis Manager Technical Overview, 5989-6613EN

Agilent U2000 Series USB Power Sensors Demo Guide, 5989-6280EN

Agilent U2000 Series USB Power Sensors Data Sheet, 5989-6278EN

Agilent N8262A P-Series Modular Power Meter Data Sheet, 5989-6605EN

Agilent N1911A/N1912A P-Series Power Meters Data Sheet, 5989-2471EN

Agilent P-Series Power Meter and Sensor Technical Overview, 5989-1049EN

Agilent P-Series Power Meter and Power Sensor Configuration Guide, 5989-1252EN

"Compatibility of the U2000 Series USB Power Sensors with Agilent Instruments", Application Note, 5989-8743EN

"Innovative Applications for an RF & microwave USB Power Meter", Application Note, 5989-7268EN

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For more information on repair and calibration services, go to

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