

Keysight N8262A

P-Series Modular Power Meter and Power Sensors

Configuration Guide



Introduction

This configuration guide describes standard configurations, options and compatible accessories. Contact your local Keysight Technologies, Inc. representative for additional information.

P-Series modular power meter

The P-Series modular power meter provides peak, average, peak-to-average ratio power measurements, time-gated and free run modes, as well as pulse parameters measurements such as rise time, fall time, pulse width, pulse period, PRI, PRF, time to positive and negative occurrences.

The P-Series modular power meter is compatible with the 8480, E-Series (except E9320 range) and P-Series power sensors. The P-Series modular power meter has a different sensor input connector than the EPM and EPM-P Series power meter, so it is necessary to use adapter cables. These adapter cables come in three different lengths. When using the 8480 or E-Series (except E9320 range) sensors, refer to the Cable Accessories section in this guide. For additional information, refer to the Literature reference section.

The standard P-Series modular power meter includes:

- P-Series modular power meter unit
- Certificate of calibration
- Documentation CD-ROM
- Keysight Instrument Control DVD
 - IO Libraries Suite
 - Command Expert
 - BenchVue Software Platform
 - 30-day free trial of BenchVue Power Meter/Sensor Control and Analysis app
- N8262A P-Series Modular Power Meter Installation Guide
- Power cord

P-Series wideband power sensors

The P-Series wideband power sensors are designed specifically for operation with the P-Series modular power meter for wide bandwidth power and time measurements. These sensors are the only Keysight power sensors that have their cable permanently wired (hard-wired) into sensor. This provides better wide bandwidth specifications compared to a removable cable. Refer to the Sensor Cable Lengths section in this guide for part number and cable length information.

The standard P-Series power sensors include:

- Power sensor 50 MHz to 18 GHz, order N1921A
- Power sensor 50 MHz to 40 GHz, order N1922A
- Documentation CD-ROM



Compatibility

Power sensor compatibility

The P-Series modular power meter is compatible with all current 8480, E-Series (except E9320 range) and P-Series power sensors. You may also refer to the Cable Accessories section for power sensors compatibility.

P-Series modular power meter accessories

Standard accessories available, for example, rack mount kit.

Table 1. Standard accessories.

Accessory part number	Description
N8262A-908	Rack mount kit (one instrument)
N8262A-909	Rack mount kit (two instruments)
34111A	Transit case
34120A	Soft carrying case



Cable Accessories

Power sensor adapters for use with 8480 and E-Series (except E9320 range) power sensors:

Table 2. Cable accessories for use with 8480 and E-Series (except E9320 range) power sensors.

Accessory part number	Description
N1917A	P-Series meter cable adaptor, 1.5 m (5 ft)
N1917B	P-Series meter cable adaptor, 3 m (10 ft)
N1917C	P-Series meter cable adaptor, 10 m (31 ft)

Software Accessories

BenchVue Software Power Meter/Sensor Control and Analysis app

The N8262A power meter is supported by the Keysight BenchVue software, BV0007B Power Meter/Sensor Control and Analysis app. The BV0007B app extends the capability of the N8262A P-Series modular power meter. It provides comprehensive power measurements, flexible display formats, 15 point pulse parameters characterization, multi-channel operations, limit and alert, recording and playback, and other features. For more information, www.keysight.com/find/BenchVue

P-Series Wideband Power Sensor Cable Lengths

Three fixed cable length options are available for the P-Series modular power sensors at 1.5 m, 3.0 m and 10 m.

Option 105 is the standard (default) option.

Table 3. P-Series wideband power sensor cable lengths.

Accessories part number	Description
N1921A-105 N1922A-105	Fixed 1.5 m (5 ft) cable length
N1921A-106 N1922A-106	Fixed 3.0 m (10 ft) cable length
N1921A-107 N1922A-107	Fixed 10 m (31 ft) cable length

Calibration option

The P-Series modular power meter and sensors are available with:

- Option N8262A-A6J (ISO17025 compliance calibration test data including measurement uncertainties)
- Option N8262A-1A7 (ANSI Z540 compliance calibration test data including measurement uncertainties)



Service and support options

The P-Series modular power meters and sensors are supplied with a one year customer return repair service as standard. For extended initial warranty and service to three years, refer to Table 4.

Table 4. Service and support options.

Option	Description
R1280A	Return-to-Keysight – warranty and service plan
– R-51B-001-C	1 year Return-to-Keysight warranty
– R-51B-001-3C	1 year Return-to-Keysight warranty extended to 3 years
R1282A	Return-to-Keysight – calibration plan
– R-50C-011-3	Keysight Calibration Upfront Support Plan 3 years coverage

Documentation

The P-Series modular power meter is furnished with a CD-ROM which contains the Installation Guide, User's Guide, Programming Guide and Service Guide. The following table provides option numbers and part numbers for printed documentation.

Table 5. Documentation.

Option	Documentation
N8262A-OBK	Additional English language manual set (User's Guide, p/n N8262-90001 and Programming Guide, p/n N8262-90008)
N8262A-OBF	English language Programming Guide, p/n N8262-90008
N8262A-OBW	English language Service Guide, p/n N8262-90004
N8262A-ABJ	Japanese language User's Guide, p/n N8262-90003
N1921A-OB1	Additional English language manual set, Operating and Service Manual, p/n
N1922A-OB1	N1920-90007

Literature References

Publication title	Publication number
<i>N8262A P-Series Modular Power Meter and Power Sensors - Technical Overview</i>	5989-6606EN
<i>N8262A P-Series Modular Power Meter and Power Sensors - Data Sheet</i>	5989-6605EN
<i>N1911A/N1912A P-Series Power Meters and N1921A/N1922A Wideband Power Sensors - Data Sheet</i>	5989-2471EN
<i>E4416A/E4417A EPM-P Series Power Meters and E-Series E9320 Peak and Average Power Sensors – Data Sheet</i>	5980-1469E
<i>EPM Series Power Meters E-Series and 8480 Series Power Sensors - Data Sheet</i>	5965-6382E
<i>Fundamentals of RF and Microwave Power Measurements (Part 1) - Application Note</i>	5988-9213EN
<i>Fundamentals of RF and Microwave Power Measurements (Part 2) - Application Note</i>	5988-9214EN
<i>Fundamentals of RF and Microwave Power Measurements (Part 3) - Application Note</i>	5988-9215EN
<i>Fundamentals of RF and Microwave Power Measurements (Part 4) - Application Note</i>	5988-9216EN
<i>4 Steps for Making Better Power Measurements - Application Note</i>	5965-8167E
<i>Choosing the Right Power Meter and Sensor - Application Note</i>	5968-7150E



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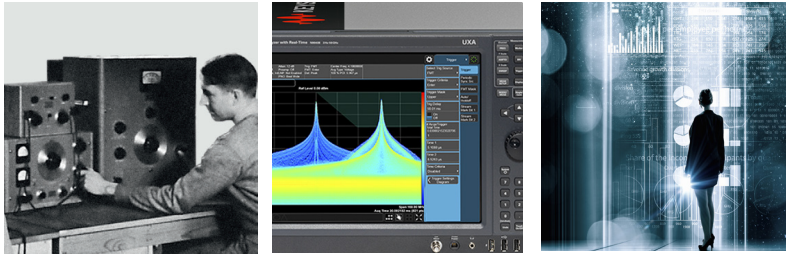
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