

Agilent Power Meters and Power Sensors

High performance solutions for peak and average power measurements



Change your work, change your world

N8262A P-Series modular power meter



- 1U half-rack size
- 100 MSA/s continuous sampling, single-shot 30 MHz VBW
- Includes time-gated and statistical (CCDF) power measurements
- Wireless presets include WLAN, radar and MCPA
- Compatible with P-Series, E4410, E9300 and 8480 Series power sensors
- Compatible with N1918A Power Analysis Manager software
- Code-compatible with N1912A P-Series power meter

N1911A/2A P-Series power meters



- 100 MSA/s continuous sampling, single-shot 30 MHz VBW
- Includes time-gated and statistical (CCDF) power measurements
- Wireless presets include WiMAX™, HSDPA and DME
- Compatible with P-Series, E-Series, N8480 Series and 8480 Series power sensors
- Compatible with N1918A Power Analysis Manager software
- Code-compatible with EPM-P and EPM Series power meters

E4416A/7A EPM-P Series power meters



- 20 MSA/s continuous sampling, 5 MHz VBW
- Includes time-gated power measurements
- Bundled analyzer software for pulse and statistical analysis
- Wireless presets include GSM, Bluetooth™ and W-CDMA
- Compatible with E-Series, N8480 Series and 8480 Series power sensors
- Code-compatible with EPM Series power meters

N1913A/14A EPM Series power meters



- Single, dual or four-channel measurements
- Frequency range of 9 kHz to 110 GHz, power range of -70 dBm to +44 dBm (depending on power sensor)
- Fast measurement speed of 400 readings/s
- Color LCD screen
- USB, GPIB and LAN/LXI-C connectivity
- Compatible with the U2000, E9300 and E4410, N8480 and 8480 Series power sensors.
- Code-compatible with legacy E4418B/9B EPM Series, 436A, 437B and 438A power meters (43X compatibility only with option N191xA-200)

V3500A Handheld RF Power Meter



- Broad 10 MHz to 6 GHz frequency range
- Wide dynamic range (-63 dBm to +20 dBm)
- Absolute accuracy up to +0.21 dB
- Built-in display with backlight and integrated power sensor
- Internal power reference enables self-calibration before use
- Relative offset function provides measurement compensation with value ranging from -99.99 dB to +99.99 dB
- 3-ways power up capability (via AA batteries, USB interface, and AC power adaptor)

U2000 Series USB power sensors



- -60 dBm to +44 dBm, 9 kHz to 24 GHz average power measurements without power meters
- Quick and easy set up with USB connectivity
- Internal zeroing without disconnecting from device-under-test
- Bundled N1918A Power Analysis Manager software for easy monitoring and troubleshooting
- Flexible power measurements with selected Agilent signal sources, spectrum analyzers and network analyzers
- Code-compatible with N1913A/14A EPM Series power meter

N1921A/2A P-Series power sensors



- 30 MHz VBW
- 1500 readings/s
- -35 dBm to +20 dBm, 50 MHz to 40 GHz
- Internal zeroing and calibration

E4410, E9300 & E9320 E-Series power sensors



- Up to 5 MHz VBW (E9320)
- Up to 1000 readings/s
- -70 dBm to +44 dBm, 9 kHz to 33 GHz
- Calibration factors in EEPROM

N8480 Series thermocouple power sensors



- -35 dBm to +44 dBm, 100 kHz to 50 MHz
- Built in EEPROM to automatically load calibration factors to reduce manual input errors
- Compatible with EPM, EPM-P and P-Series power meters

848xD Series, V/W8486A diode power sensors

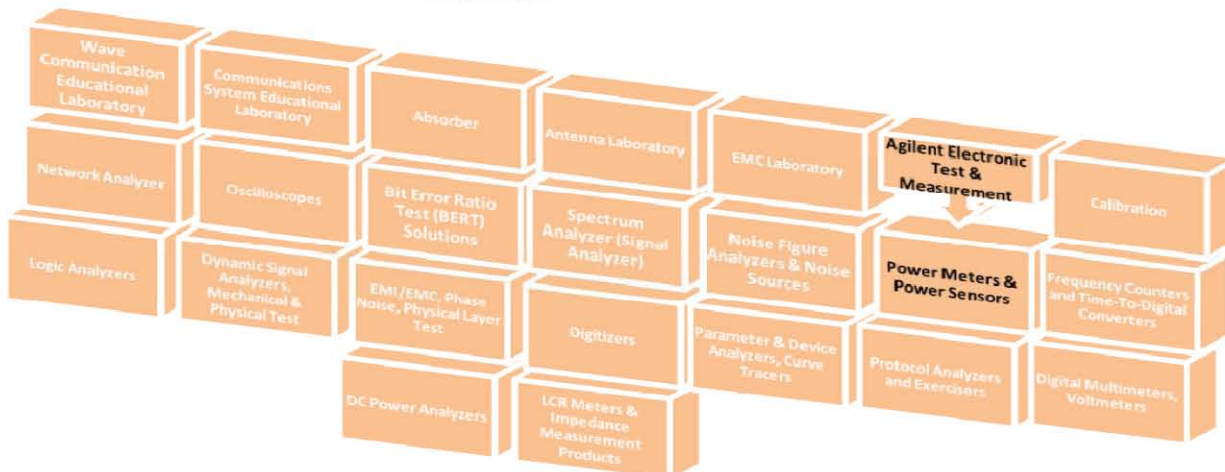


- -70 dBm to +20 dBm, 10 MHz to 110 GHz

N1918A Power Analysis Manager software



- Expand the functionality of USB power sensor (U2000-Series), P-Series power (N1911/12A) and P-Series modular power meter (N8262A)
- Multiple viewing types, including multiple-channel list (> 20 channels)
- Record and save for easy troubleshooting
- Limit and alert settings for multiple channels monitoring
- Complete 15-point pulse characterization for peak power analysis



Designed for Compact ATE Systems

Smaller test systems are possible with the TU N8262A, making it more readily deployable.



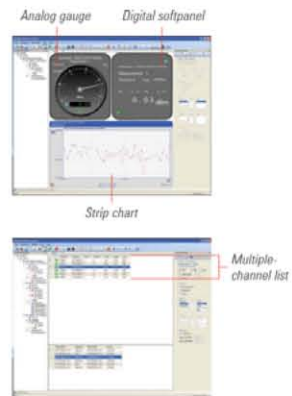
Designed for Mobile Testing That's Plug-and-Play Easy

When you need to take power measurements on the road or up a base station tower, smaller, lighter and fewer is better. With the U2000 Series USB power sensors, the only other thing you'll need is a laptop with the N1918A Power Analysis Manager installed.



Designed for Easy Monitoring and Troubleshooting

Adopt versatile viewing of measurements all on one screen with the N1918A Power Analysis Manager through the display format you choose.

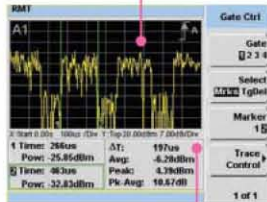


Designed for Wireless Applications

WLAN Testing

With P-Series power meter's WLAN preset, you can capture unpredictable WLAN burst signals more easily.

100 MSa/s continuous sampling ensures signal glitches are not missed



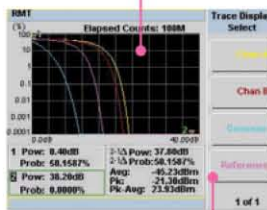
Time-gated peak, average and peak-to-average ratio power measurements

MCPA Testing

Multi-channel power amplifiers (MCPA) are commonly used in communications. In designing multi-channel power amplifiers, you'd need a wide bandwidth power meter like the P-Series to ensure your product does not exceed its maximum power specification.

- 30 MHz video bandwidth allows up to six 3G carriers over a wide dynamic range of -35 dBm to +20 dBm
- Rise/fall time measurement helps in checking the signal's burst profile and identifying any power transition problems

Four traces can be viewed simultaneously: Channel 1, Channel 2, Gaussian, reference traces

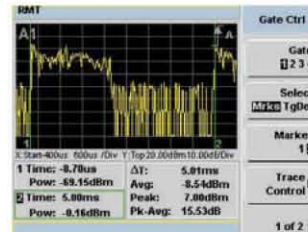


Peak-to-average ratio and CCDF power measurements verify if the power amplifier is clipping

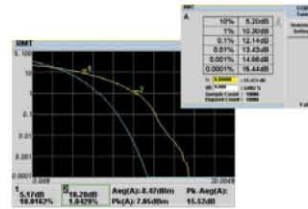
WiMAX Testing

Now, you don't have to know the signal parameters beforehand. With the P-Series power meter's WiMAX preset, setting up to capture unpredictable WiMAX burst signals is so much easier.

- 30 MHz wide video bandwidth and 100MSa/s continuous sampling effectively capture high burst rates and fast time-varying power levels
- Auto trigger hold-off capability captures the complete Downlink or Uplink subframe burst desired, within a fixed time span



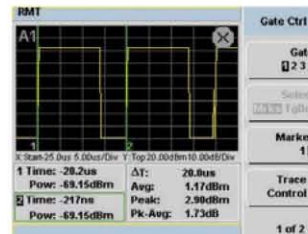
Measurement speed matches WiMAX burst rate (eg: 200 bursts/s for a 5 ms frame). This is especially crucial for high-speed dynamic transmitter power calibration



CCDF statistical measurement in graphical and tabular formats

Radar Testing

Setting up is faster and easier with radar preset in the P-Series power meter.



- 40 GHz frequency range, 100 MSa/s repetitive sampling and ≤ 13 ns rise/fall time effectively capture high-frequency radar signals
- Four time gates enable four independent measurements on either a single pulse or multiple pulses
- Perpetually-on autogating allows automatic repositioning of the gates accordingly to follow the change in pulse width

