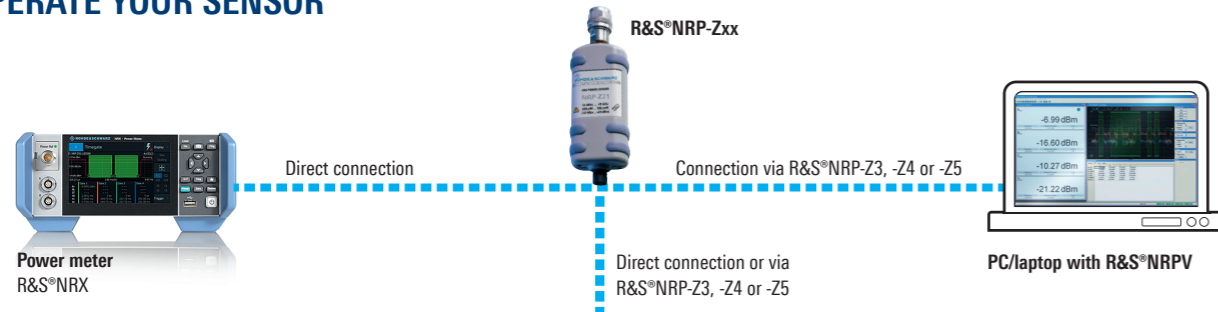


SELECT THE METHOD TO OPERATE YOUR SENSOR



Supported Rohde & Schwarz instruments



Signal generators
e.g. R&S®SMW200A



Signal/spectrum analyzers
e.g. R&S®FSW



Network analyzers
e.g. R&S®ZVA

SELECT YOUR NEXT POWER SENSOR/METER

Model	Level range	Frequency range
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Frequency selective power sensor

R&S®NRQ6 -130 dBm to +20 dBm 50 MHz to 6 GHz

Power meter

R&S®NRX -70 dBm to +45 dBm DC to 110 GHz

Three-path diode power sensors

R&S®NRP8S/SN -70 dBm to +23 dBm 10 MHz to 8 GHz

R&S® NRP18S/SN -70 dBm to +23 dBm 10 MHz to 18 GHz

R&S®NRP18S-10 -60 dBm to +33 dBm 10 MHz to 18 GHz

R&S®NRP18S-20 -50 dBm to +42 dBm 10 MHz to 18 GHz

R&S®NRP18S-25 -45 dBm to +45 dBm 10 MHz to 18 GHz

R&S®NRP33S/SN -70 dBm to +23 dBm 10 MHz to 33 GHz

R&S®NRP40S/SN -70 dBm to +23 dBm 50 MHz to 40 GHz

R&S®NRP50S/SN -70 dBm to +23 dBm 50 MHz to 50 GHz

Two-path diode power sensors

R&S®NRP-Z211 -60 dBm to +20 dBm 10 MHz to 8 GHz

R&S®NRP-Z221 -60 dBm to +20 dBm 10 MHz to 18 GHz

Wideband power sensors

R&S®NRP-Z81 -60 dBm to +20 dBm 50 MHz to 18 GHz

R&S®NRP-Z85 (2.92 mm connector) -60 dBm to +20 dBm 50 MHz to 40 GHz

R&S®NRP-Z86 model .40 (2.4 mm connector) -60 dBm to +20 dBm 50 MHz to 40 GHz

R&S®NRP-Z86 model .44 -60 dBm to +20 dBm 50 MHz to 44 GHz

Model	Level range	Frequency range
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Thermal power sensors

R&S®NRP18T/TN -35 dBm to +20 dBm DC to 18 GHz

R&S®NRP33T/TN -35 dBm to +20 dBm DC to 33 GHz

R&S®NRP40T/TN -35 dBm to +20 dBm DC to 40 GHz

R&S®NRP50T/TN -35 dBm to +20 dBm DC to 40 GHz

R&S®NRP67T/TN -35 dBm to +20 dBm DC to 67 GHz

R&S®NRP110T -35 dBm to +20 dBm DC to 110 GHz

Average power sensors

R&S®NRP6A/AN -70 dBm to +23 dBm 8 kHz to 6 GHz

R&S®NRP18A/AN -70 dBm to +23 dBm 8 kHz to 18 GHz

Power sensor modules

R&S®NRP-Z27 -24 dBm to +26 dBm DC to 18 GHz

R&S®NRP-Z37 -24 dBm to +26 dBm DC to 26.5 GHz

Rohde & Schwarz representative



More information: rohde-schwarz.com/power-sensors

POWER SENSORS. FAST. ACCURATE. USB- AND LAN-CAPABLE.



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ROHDE & SCHWARZ

Make ideas real



POWER SENSORS



R&S®NRQ6 frequency selective power sensor

The new frequency selective power sensors from Rohde & Schwarz takes you to maximum depth in power measurements. It combines accurate performance of a power sensor and the dynamic of a spectrum analyzer for fast and precise power measurements from -130 dBm to +20 dBm level range, even in price sensitive applications.

R&S®NRQ6

- ▶ Frequency selective power measurement
- ▶ Frequency range: 50 MHz to 6 GHz
- ▶ Level range: -130 dBm to +20 dBm
- ▶ Automatic frequency and bandwidth detection
- ▶ 100 MHz measurement bandwidth
- ▶ Continuous average, trace and ACLR measurement
- ▶ RF frontend for I/Q signal analysis applications
- ▶ Excellent impedance matching

Multipath diode power sensors

The ideal combination of accuracy, measurement speed and widest dynamic range



R&S®NRP8S/SN, R&S®NRP18S/SN, R&S®NRP33S/SN, R&S®NRP40S/SN, R&S®NRP50S/SN

- ▶ Frequency range from 10 MHz to 50 GHz
- ▶ Accurate power measurements down to -70 dBm
- ▶ Dynamic range of 93 dB based on innovative three-path concept
- ▶ Fast measurement speed, precise power measurements and wide range of measurement functions
- ▶ Ideal for universal applications in R&D, installation and maintenance
- ▶ Sensors for high power applications up to +45 dBm

Power meter base unit

Supports all measurement functions of every sensor



R&S®NRX

- ▶ Operates up to four R&S®NRP-Zxx power sensors in parallel
- ▶ Numerical or graphical display of measurement results depending on the measurement function
- ▶ Intuitive user interface (window-based)
- ▶ Remote control operation via Ethernet, GPIB and USB
- ▶ Emulates legacy power meters
- ▶ Sensor check source (optional)

Virtual power meter

Convenient power measurements via PC based software



R&S®NRPV

- ▶ R&S®NRP-Zxx power sensors can be connected to a laptop or PC via a USB adapter and controlled via the R&S®NRPV virtual power meter PC software
- ▶ Numerical display (continuous average, timeslot average, timegate average and burst average mode)
- ▶ Multiple traces in one window
- ▶ Extremely flexible marker functions
- ▶ Dongle-free on multiple PCs through intelligent licensing concept

R&S®NRP USB and LAN power sensors

Fast and accurate power meters – the new champions from Rohde & Schwarz. The R&S®NRPxxS/SN, R&S®NRPxxT/TN and R&S®NRPxxA/AN power sensors offer USB capability, plus the R&S®NRPxxSN, R&S®NRPxxTN and R&S®NRPxxAN sensors can be controlled via LAN. This makes the R&S®NRP power meter portfolio unique in the industry.



R&S®NRPxxS/SN

- ▶ More than 50 000 readings/s
- ▶ Unprecedented measurement speed and accuracy even at low levels
- ▶ 93 dB dynamic range thanks to innovative three-path concept
- ▶ LAN operation via a web browser



R&S®NRPxxT/TN

- ▶ Outstanding performance for reference applications up to 110 GHz
- ▶ Excellent impedance matching
- ▶ Sophisticated connector concept
- ▶ LAN operation from a web browser



R&S®NRPxxA/AN

- ▶ Specially designed for EMC applications
- ▶ Unprecedented measurement speed and accuracy even at low levels
- ▶ Frequency range: 8 kHz to 18 GHz
- ▶ LAN operation from a web browser

Thermal power sensors

Outstanding linearity and maximum accuracy



R&S®NRP18T/TN, R&S®NRP33T/TN, R&S®NRP50T/TN, R&S®NRP67T/TN, R&S®NRP110T

- ▶ Frequency range from DC to 110 GHz
- ▶ Level range from -35 dBm to +20 dBm
- ▶ Only thermal sensors with LAN interface
- ▶ Innovative connector design for improved ease of use
- ▶ Outstanding performance for reference app

Thermal waveguide sensors

Highest measurement accuracy for complex measurement tasks



R&S®NRP75TWG, R&S®NRP90TWG and R&S®NRP110TWG

- ▶ Dynamic range: -35 dBm to +20 dBm
- ▶ Convenient and accurate solution with integrated waveguide interfaces
- ▶ Control and monitoring via USB and R&S®NRX
- ▶ Outstanding performance for reference applications

Wideband power sensors

Outstanding dynamic range for trace measurements



R&S®NRP-Z8x

- ▶ Frequency range from 50 MHz to 44 GHz
- ▶ Level range from -60 dBm to +20 dBm
- ▶ Accurate envelope power analysis
- ▶ Automatic pulse analysis
- ▶ Statistical analysis
- ▶ High resolution mode
- ▶ Master-slave triggering (with the R&S®NRP2 base unit or the R&S®NRP-Z5 USB sensor hub)
- ▶ Ideal for radar applications and for analysis of complex modulated signals