



ROHDE & SCHWARZ

Make ideas real

R&S®NRX POWER METER

The new power meter generation with modern and intuitive user interface



The perfect choice for

Easy RF power measurements

Multi-channel measurements

RF pulse analysis

System integration

Key specifications	
Frequency range	DC to 110 GHz (sensor dependent)
Power measurement range	0.1 fW to 30 W (average) (sensor dependent)
Measurements channels	1 to 4
Display size	5"/12.7 cm
Display resolution	800 x 480 pixel (WVGA)
Touch panel	yes
Compatible sensors	R&S®NRPxxS(N)/T(N)/A(N) series R&S®NRP-Zxx series R&S®NRQ6 frequency selective power sensor R&S®NRT-Zxx directional power sensors
Weight	2.35 kg to 2.58 kg (option dependent)

Key features

- ▶ Intuitive operation with touchscreen based GUI
- ▶ Supports up to four R&S®NRP and R&S®NRQ6 power sensors
- ▶ Supports all sensor-dependent measurement functions
- ▶ Optional high-precision CW and pulse mode reference source module
- ▶ Optional power reflection measurements with R&S®NRT-Zxx sensors

Your benefit	Features
Easy to use	<ul style="list-style-type: none"> ▶ Clear color touchscreen supports the intuitive, window based operating concept. ▶ Color-coded key parameters and functions can be seen at a glance. ▶ Results are presented in numerical and graphical display windows that can be easily configured.
Sensor check source	<ul style="list-style-type: none"> ▶ Superior pulse reference generator ▶ Test source for sensors and DUT ▶ Variable mode (CW/pulse), frequency (50 MHz/1 GHz) and discrete power steps
All-in-one base unit	<ul style="list-style-type: none"> ▶ Supports multipath, thermal, wideband and averaging sensors ▶ Supports frequency selective power sensors ▶ Supports directional power sensors



For more information:

www.rohde-schwarz.com/catalog/NRX

Universal sensor connectivity

optional R&S®NRT Sensor Interface R&S®NRX-B9

R&S®NRT-Zxx:
R&S®NRPxxS/T/A:
R&S®NRPxxSN/TN/AN:

Direct
R&S®NRP-ZK8 or NRP-ZK6
R&S®NRP-ZK8 or NRP-ZK6

R&S®NRP-Zxx:
R&S®NRPxxS/T/A:
R&S®NRPxxSN/TN/AN:

R&S®NRP-Z4
R&S®NRP-ZKU
R&S®NRPxxSN/TN/AN: R&S®NRP-ZKU

PoE+ Switch e.g. R&S® NRP-ZAP1

LAN

PoE LAN

R&S®NRQ6

R&S®NRPxxSN/TN/AN

R&S®NRP-Zxx

2x R&S®NRP sensor connector (8-pole) on front panel + optional 2x rear side (R&S®NRX-B4)

max. 4 R&S®NRP sensors

max. 2 R&S®NRQ6 sensors

Ordering information	
Base unit	R&S®NRX
Power meter	R&S®NRX
Hardware options	
Sensor check source	R&S®NRX-B1
Third (C) and fourth (D) sensor connector for R&S®NRP	R&S®NRX-B4
GPIB/IEEE488 interface	R&S®NRX-B8
Sensor interface for R&S®NRT	R&S®NRX-B9
Software options	
Second measurement channel	R&S®NRX-K2
Third and fourth measurement channel	R&S®NRX-K4
Recommended accessories	
19" rack adapter (for one R&S®NRX power meter and one empty casing)	R&S®ZZA-KNA22
19" rack adapter (for two R&S®NRX power meters)	R&S®ZZA-KNA24
Recommended extras (should be ordered with R&S®NRP power sensors)	
8-pole interface cable, length: 1.50 m	R&S®NRP-ZK8
8-pole interface cable, length: 3.00 m	R&S®NRP-ZK8
8-pole interface cable, length: 5.00 m	R&S®NRP-ZK8

Automatic pulse analysis

Pulse Analysis

E: NRP-ZB1-103506

15.94 dBm

5.00 dB/div

-34.06 dBm

-32.27 µs 1.00 ms/div 9.67 ms

2.6720 ms 399.66 µs 2.0723 ms

3.0717 ms 956.48 ns 1.6727 ms

86.989 % 1.0263 µs 5.6827 dBm

-31.423 dBm 1.7886 0.0069 %

Display >

Pos Scaling

T1 T2

Trigger >

All R&S®NRP-ZBx wideband power sensors allow automatic pulse analysis.
Up to 12 of 18 user-selected pulse parameters can be displayed in addition to the measurement trace.

Flexible device interfacing

The image shows the front panel of the R&S NRX power meter with its keypad, display, and various control buttons. Below it, the rear panel is shown, featuring multiple ports including Ethernet, USB, and GPIB/IEEE488 interfaces.

Rohde & Schwarz Representative