



# R&S®NRP-Z211/-Z221 Two-Path Diode Power Sensor

## Get accurate results faster

The perfect choice for

Base stations and mobile equipment

Calibration



### Get accurate results faster

The R&S®NRP-Z211/-Z221 two-path diode power sensors combine all key characteristics relevant for their use in production. They are cost-effective, fast, precise and USB-capable, offering the best price/performance ratio in their class.

- ▶ Innovative two-path diode power sensor with enhanced interranging performance
- ▶ 80 dB dynamic range for CW and modulated signals
- ▶ Automatic burst detection and acquisition
- ▶ Low sensitivity to harmonics

Key specifications	
Frequency range	10 MHz to 8 or 18 GHz
Measurement range	-60 dBm to +20 dBm (1 nW to 100 mW)
Speed	1,500 measurements/s
Available measurement functions	continuous average mode, trace mode, timeslot/time gate mode, burst average mode

Your benefit	Features
USB sensors with no compromises	The R&S®NRP-Zxx power sensors are USB sensors that can be used standalone and have no downside in terms of versatility, accuracy and functionality
Highest accuracy	R&S®Smart Sensor technology
Fastest time to accurate measurements	<ul style="list-style-type: none"> <li>▶ Widest measurement range</li> <li>▶ Lowest noise floor</li> <li>▶ Fastest measurements</li> </ul>

## Multiple ways to operate R&S®NRP-Z211/-Z221 power sensors



The power sensors can be operated either on an R&S®NRP2 base unit or directly on a laptop/PC. They are also supported by numerous Rohde & Schwarz signal generators, signal analyzers, spectrum analyzers and network analyzers. The R&S®NRP-Z4 passive USB adapter cable is all that is needed to connect the sensors to a laptop/PC.

The R&S®NRP-Z5 sensor hub allows you to connect up to four sensors to a laptop/PC without additional adapters and to simultaneously start the measurements using an external trigger signal.

## Ordering information

### Base units

2-path diode power sensor 10 MHz to 8 GHz R&S®NRP-Z211

2-path diode power sensor 10 MHz to 18 GHz R&S®NRP-Z221

### Accessories

USB adapter cable (passive) R&S®NRP-Z4

USB adapter cable (active) R&S®NRP-Z3

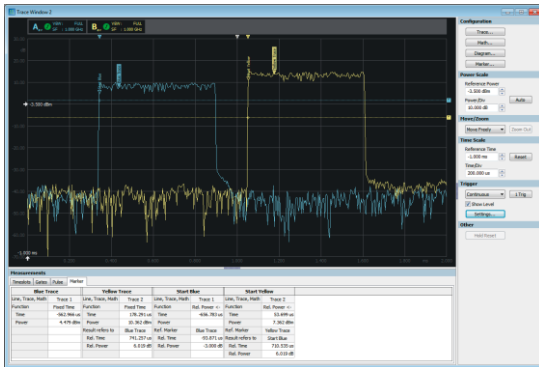
R&S®NRPV license for one sensor R&S®NRPZ-K1

Sensor hub R&S®NRP-Z5

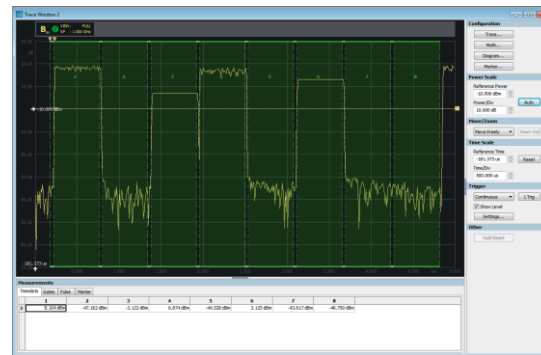
For higher frequencies and other power measurement ranges, please contact your local Rohde & Schwarz partner.

## R&S®NRPV: convenient power measurements via PC application

In combination with the R&S®NRPV virtual power meter software, the USB capability of the R&S®NRP-Z211/-Z221 power sensors can be ideally utilized. The software covers all sensor functions and supports up to four sensors connected to a laptop/PC via the R&S®NRP-Z3/-Z4 USB adapter cables or the R&S®NRP-Z5 sensor hub. The sensors are automatically detected when plugged in and added to all open measurement windows (hot plugging).



Pulse delay measurement on different traces.



Measurement of eight timeslots in one shot with the R&S®NRPV.



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