

R&S®NRP8E/R&S®NRP18E VERSUS R&S®NRP8S/R&S®NRP18S

Comparison of Rohde & Schwarz power sensors



Reliable power measurements at an affordable price

- ▶ The Rohde & Schwarz portfolio offers the R&S®NRPxE diode power sensors with the price and performance that economy labs, service providers or hobbyists need
- ▶ The look, feel, usability and connectivity are identical to high-end RF power sensors across the portfolio
- ▶ The R&S®NRP8S/R&S®NRP18S 3-path diode power sensors are still best when speed or sensitivity are important, e.g. for mass production applications

Your benefit	Features of the R&S®NRPxE
Best total cost of ownership (TCO)	▶ Essentials class price and performance
Great usability	▶ Easy to connect to a base unit, PC or mobile phone ▶ Users of other Rohde & Schwarz RF power sensors feel right at home through stringent user experience
Tried and tested performance	▶ Multipath diode technology for reliable accuracy and measurement speeds

	R&S®NRP8E/R&S®NRP18E	R&S®NRP8S/R&S®NRP18S
Frequency range	10 MHz to 18 GHz	10 MHz to 18 GHz
Dynamic range	80 dB	93 dB
VSWR	10 MHz to 2.4 GHz: < 1.13, 2.4 GHz to 8.0 GHz: < 1.20, 8.0 GHz to 18.0 GHz: < 1.25	10 MHz to 2.4 GHz: < 1.13, 2.4 GHz to 8.0 GHz: < 1.20, 8.0 GHz to 18.0 GHz: < 1.25
Measurement speed	1000/s	50 000/s (buffered)
Video bandwidth	100 kHz	100 kHz
Digital connectivity	USB TMC	USB TMC (LAN model available as well)
Measurement function	continuous average, trace, time gate power	continuous average, trace, time gate power
Ruggedizing	yes	yes
Control options	base unit, selected T&M instruments, mobile devices, free PC software	base unit, selected T&M instruments, mobile devices, free PC software
Important RF related properties	clearly stated on-sensor, just start measuring without consulting manuals	stated in getting started document
Accredited calibration available	no	yes



For options, prices and more information, visit www.rohde-schwarz.com

Easy to use

Get started without consulting a manual:

The most important RF relevant data is clearly listed on the sensor product label.

Color-coded connector type

Fastening torque

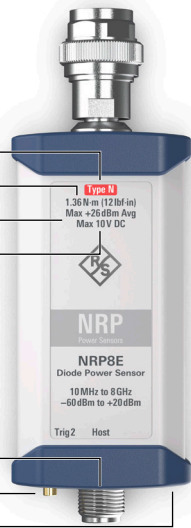
Maximum RF power

Maximum DC voltage

Host interface compatible with
R&S®NRP-ZKx digital cables

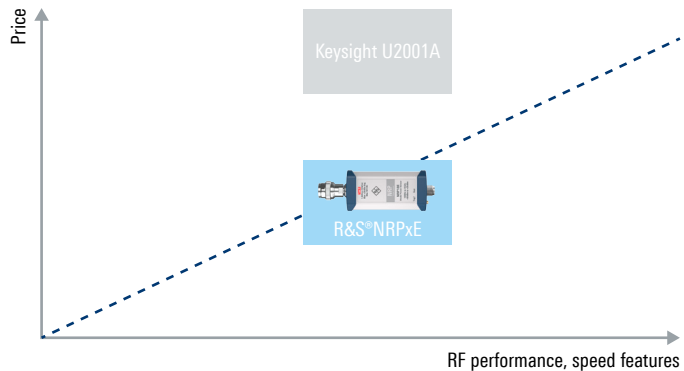
Trigger I/O

RGB status LED



Great performance at an affordable price

R&S®NRPxE has all the performance of R&S®NRPxS at a fraction of the price.



Rohde & Schwarz GmbH & Co. KG

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R&S®NRP8E/R&S®NRP18E versus R&S®NRP8S/R&S®NRP18S

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Data without tolerance limits is not binding | Subject to change

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Mobile connectivity

Taking reliable RF power measurements is as simple as taking a photo. Free mobile app available on the Google Play store.

