



R&S® FPL1000 SPECTRUM ANALYZER

Experience high performance wherever you take it

The perfect choice for

Research, education, service and maintenance

General purpose signal analysis and demodulation

Fast and easy integration for automated tests

Basic function tests and EMI debugging in R&D



Benchtop performance from a portable analyzer

The R&S® FPL1000 spectrum analyzer combines excellent RF performance with a small footprint. The light weight and optional battery/DC power make it the ideal instrument for the lab and in the field. Operating the multipoint touchscreen instrument is intuitive and fun. The R&S® FPL1000 performs multiple tasks in a single instrument at an attractive price.

| Key specifications | |
|--------------------------------------|----------------------|
| Frequency | 5 kHz to 26.5 GHz |
| DANL at 1 GHz | typ. -166 dBm |
| Spurious response | typ. < -70 dBc |
| Analysis bandwidth | 10 MHz, opt. 40 MHz |
| Phase noise at 1 GHz (10 kHz offset) | typ. -108 dBc (1 Hz) |
| Overall amplitude accuracy | 0.8 dB |
| TOI at 1 GHz | typ. +20 dBm |
| Standard attenuator range | 45 dB |
| Attenuator step options | 5 dB, opt. 1 dB |

| Models | |
|--------------|-------------------|
| R&S® FPL1003 | 5 kHz to 3 GHz |
| R&S® FPL1007 | 5 kHz to 7.5 GHz |
| R&S® FPL1014 | 5 kHz to 14 GHz |
| R&S® FPL1026 | 5 kHz to 26.5 GHz |

| Your benefit | Features |
|-----------------------------------|---|
| One instrument for multiple tasks | <ul style="list-style-type: none"> ▶ Spectrum analysis ▶ Power meter ▶ Analog and digital signal analysis |
| More space on your test bench | <ul style="list-style-type: none"> ▶ Smallest footprint in its class (depth of only 23.5 cm) |
| Portability | <ul style="list-style-type: none"> ▶ Carrying handle and low weight ▶ Optional battery pack for over 3 hours of operation ▶ Optional 12 V/24 V DC power supply |



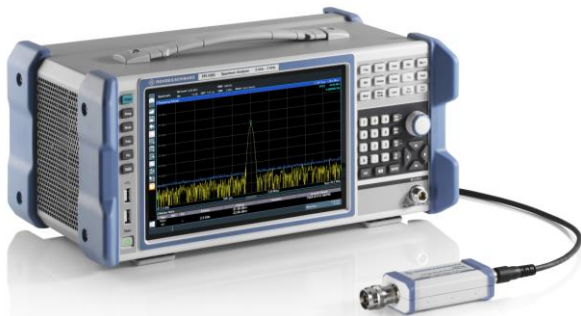
致力于电子测试、维护领域!

Flexible user interface



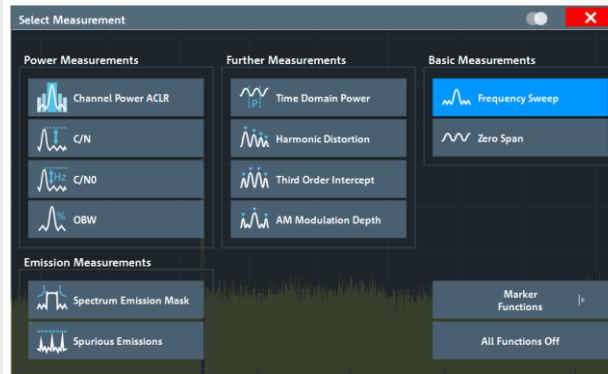
Configure your result windows the way you want. Display multiple measurement channels at once. Sequential channel updating allows e.g. parallel measurement of the spectrum, spectrogram and analog demodulation together with I/Q analysis.

Use as a power meter

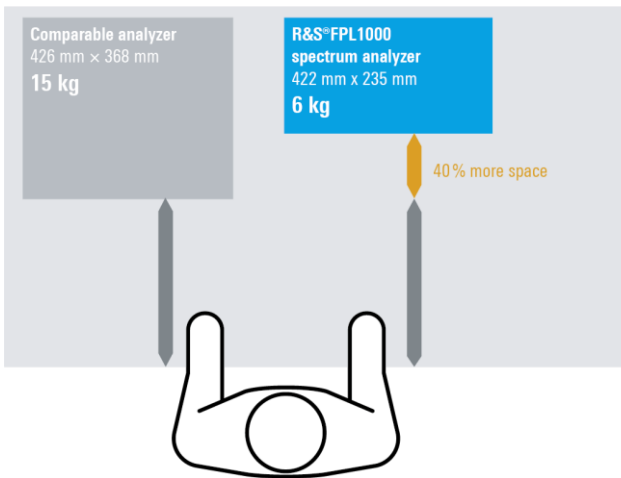


Turn the R&S®FPL1000 into a power meter with R&S®NRP power sensors and the R&S®FPL1-K9 option.

Many predefined measurements



Fast and easy access to a wealth of measurement and marker functions in the base model, including spectrogram measurements and I/Q analysis. Quick configuration through clear menus and touchscreen operation.



The R&S®FPL1000 takes up 40 % less space than comparable analyzers on a typical 80 cm workbench. It is the most portable benchtop analyzer, weighing 60 % less.

Popular accessories

| Hardware | Type |
|---|---------------|
| OCXO reference frequency | R&S®FPL1-B4 |
| Additional interfaces | R&S®FPL1-B5 |
| Internal generator | R&S®FPL1-B9 |
| GPIO interface | R&S®FPL1-B10 |
| YIG Preselector Bypass | R&S®FPL1-B11 |
| Second hard disk (SSD) | R&S®FPL1-B19 |
| RF preamplifier | R&S®FPL1-B22 |
| 1 dB steps for electronic attenuator | R&S®FPL1-B25 |
| Internal li-ion battery with charging unit | R&S®FPL1-B31 |
| 40 MHz analysis bandwidth | R&S®FPL1-B40 |
| Firmware | |
| Analog modulation analysis for AM/FM/φM | R&S®FPL1-K7 |
| Power measurements with R&S®NRP power sensors | R&S®FPL1-K9 |
| Noise figure measurements | R&S®FPL1-K30 |
| EMI measurements | R&S®FPL1-K54 |
| Vector signal analysis | R&S®FPL1-K70 |
| Multi-modulation analysis | R&S®FPL1-K70M |
| BER measurements with PRBS data | R&S®FPL1-K70P |

¹⁾ Available for the R&S®FPL1003 and R&S®FPL1007

R&S®FPL1000 unique features in its class

Portability, optional battery and 12 V/24 V DC power (R&S®FPL1-B30)

High-resolution (1280 x 800 pixel) multi-touch screen

40 MHz analysis bandwidth (R&S®FPL1-B40)

1 dB attenuator steps (R&S®FPL1-B25)

MultiView with sequencer

Spectrum analysis from 5 kHz

Class-leading RF performance

- ▶ Low phase noise
- ▶ Low DANL
- ▶ High TOI
- ▶ Low spurs



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