R&S ZNL network analyzer and R&S FPL1000 spectrum analyzer form a family of compact, portable test instruments

Rohde & Schwarz introduces at European Microwave Week 2017 in Nuremberg a new family of compact, portable and versatile instruments for research, service and production comprising the R&S ZNL network analyzer and R&S FPL1000 spectrum analyzer. The versatile measurement capabilities of the new instruments make them a safe investment, starting with a pure spectrum analyzer (R&S FPL1000) or a standalone network analyzer, which can be turned into a 3-in-1 allrounder by adding the integrated spectrum analysis option and power sensors (R&S ZNL).

Munich, October 2, 2017 — Rohde & Schwarz launched the R&S ZNL network analyzer and the R&S FPL1000 spectrum analyzer to offer flexible solutions for the most important RF measurements. These include the characterization of components such as antennas, attenuators, filters and amplifiers, as well as measurements on signal sources including spectral measurements, analog and digital signal demodulation and accurate power measurements.

Instruments from the new family have a footprint of just 408 mm x 235 mm. This saves up to 60 % of space on the workbench compared with conventional solutions. The instruments feature a large 10.1" WXGA touchscreen, providing a good overview of measurement details. The touchscreen allows users to readily set the center frequency and reference level and zoom the span or amplitude measurement range. Weighing just 6 kg to 8 kg and featuring a carrying handle and optional battery, the instruments are fully portable and can be used wherever needed.

R&S ZNL: from a standalone network analyzer to a 3-in-1 allrounder
With frequency ranges from 5 kHz to 3 GHz or 6 GHz, the R&S ZNL is well suited for various RF component measurement applications in industrial electronics and wireless communications. The R&S ZNL offers solid network analyzer performance with a dynamic range of up to 130 dB (typ.) and an output power range from –40 dBm to +3 dBm (typ.). The measurement speed is very high, for instance 16.7 ms (401 points, 100 kHz IF bandwidth, 200 MHz span, two-port calibration). Standard features include

embedding/deembedding, fixture compensation, time domain measurements and support of automatic calibration units.

The R&S ZNL offers even more. The instrument can be equipped with full spectrum analyzer hardware. When combined with an R&S NRP power sensor, it turns into a power meter. In this way, the R&S ZNL becomes a true 3-in-1 allrounder that can handle continually changing measurement tasks, helping research and service labs to reduce investment costs.

R&S FPL1000: spectrum analyzer with versatile measurement functions
The R&S FPL1000 spectrum analyzer operates in the frequency range from 5 kHz to 3 GHz. It delivers solid RF performance with a typical phase noise of −108 dBc at 10 kHz offset (1 GHz carrier) and a displayed average noise level (DANL) of −167 dBm using the optional preamplifier. This performance combined with ease of use makes the R&S FPL1000 ideal for applications in the lab, production and service.

The spectrum analyzer functionality of both the R&S ZNL and the R&S FPL1000 includes a wide range of spectral measurements such as channel power, adjacent-channel leakage ratio (ACLR), signal-to-noise ratio, spurious, harmonic distortions, third-order intercept point (TOI) and AM modulation depth. Versatile marker functions are also provided. With standard 10 MHz or optional 40 MHz analysis bandwidth, the instruments can analyze analog signals when equipped with the R&S FPL1-K7 option. Digital modulated signals can be characterized using the R&S VSE software and the R&S VSE-K70 option. The R&S FPL1-K30 option, in combination with an external noise source, turns both the R&S FPL1000 and the R&S ZNL into a noise figure meter.

Rohde & Schwarz will present the R&S ZNL vector network analyzer and the R&S FPL1000 spectrum analyzer to the public for the first time at European Microwave Week 2017 (hall 7a, stand 108) in Nuremberg from October 10 to 12, 2017. The instruments are now available from Rohde & Schwarz and selected distribution channel partners. For more information, visit: www.rohde-schwarz.com/ad/press/analyzers

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Rohde & Schwarz

The Rohde & Schwarz electronics group offers innovative solutions in all fields of wireless communications as well as in IT security. Founded more than 80 years ago, the independent company has an extensive sales and service network with subsidiaries and representatives in more than 70 countries. On June 30, 2016, Rohde & Schwarz had approximately 10,000 employees. The group achieved a net revenue of approximately EUR 1.92 billion in the 2015/2016 fiscal year (July to June). The company is headquartered in Munich, Germany, and also has strong regional hubs in Asia and the USA.

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