Handheld Spectrum Analyzers Facilitate the Installation and Servicing of both CDMA® and LTE Networks

The R&S FSH4 and R&S FSH8 handheld spectrum analyzers from Rohde & Schwarz offer many useful new functions for installing and servicing CDMA® and LTE mobile radio networks. In their basic configuration, the analyzers can now perform measurements in the spectral range. They can, for example, detect spurious emissions and display the associated limit values. Thanks to their 20 MHz bandwidth, they are suitable for analyzing LTE signals. Using two new options, R&S FSH-K46 and -K46E, the analyzers are also capable of analyzing CDMA2000® signals.

The new R&S FSH-K46 and R&S FSH-K46E software options provide all the functions that service and installation technicians need to check the operationally relevant parameters of CDMA2000® base station signals. The R&S FSH-K46 option measures the power, determines the ratio of peak power to average power, and displays characteristic parameters such as the power in both the pilot channel (F-PICH) and the synchronization channel (F-SYNC), the carrier frequency offset, composite EVM (error vector) and Rho. The R&S FSH-K46E option has been designed for more in-depth analysis and can also perform code domain power measurements. These measurements provide the information needed for graphically displaying the power in all occupied and unoccupied channels, for example.

Additional new measurement functions have been incorporated into the base unit, including the ability to measure spurious emissions that might interfere with the adjacent transmit signal. Predefined masks for CDMA2000®, WCDMA, TD-SCDMA, WiMAX™ and LTE allow the user to measure the spectrum emission mask quickly, with minimum operating effort. The gated sweep function makes it possible to display pulsed signals in the spectrum.

Thanks to their expanded demodulation bandwidth of 20 MHz, the R&S FSH4 and the R&S FSH8 analyzers are safe investments for the installation and maintenance of LTE networks. Applications for LTE will soon become available, in addition to the applications for 1xEV-DO, 3GPP WCDMA and CDMA2000®.

The R&S FSH-K46 and R&S FSH-K46E software options as well as new firmware are now available for the R&S FSH4 and R&S FSH8 spectrum analyzers from Rohde & Schwarz. The analyzers are now being delivered with a 20 MHz demodulation bandwidth at no extra charge. More information on the R&S FSH4 and R&S FSH8 is available at www.rohde-schwarz.com/product/fsh

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