GAUSS INSTRUMENTS HIGH SPEED EMISSION MEASUREMENTS

**Press Release**
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**The new benchmark for real-time, communication and EMC testing up to THz Range – Real-time Spectrum und Signal Analyzer TDEMI® S**

The new Real-time Spectrum and Signal Analyzer TDEMI® S of GAUSS INSTRUMENTS is the new benchmark for real-time, communication and EMC testing. It is absolute flexible in its configurability and its extensibility. In its basic configuration the TDEMI® S is a high performance spectrum analyzer and is available in the frequency ranges up to 1, 6, 9, 18, 26, 40, 44 and 50 GHz. It can be extended by external mixers even up to the Terahertz frequency range. Due to its compact design and a 12V output it is a great tool for field testing or on-board testing applications.
The TDEMI® S spectrum analyzers and receivers have been optimized for low power consumption and ultrahigh performance at the same time. The flexible configurability allows to use the instrument as a real-time spectrum analyzer. The new HyperOverlapping technology provides fully new possibilities to record and analyze signals. Oversampling factors in the range of 1000 allows to improve the signal-to-noise-distance significant and also to speed up the update rate of the real-time mode, compared to current existing real-time measurement technology.

Furthermore, the TDEMI® S can be configured as a CISPR/ANSI/MIL compliant EMI receiver with Option EMI-UG. Of course, the novel HyperOverlapping is available in the FFT based mode, so it allows to record and display signals with a much higher resolution. High resolutions ADCs, which are using a patented technology to compensate nonlinear effects, achieve the highest measurement accuracy.

For fully automated measurements, the Automation Software Suite EMI64k supports all operation modes of the TDEMI® S. Thereby the TDEMI® S can be used for EMC measurements in the typical mode as well as in the real-time spectrogram mode.

Due to its flexible configuration the TDEMI® S can be configured for a variety of applications. It also can be upgraded at a later stage and therefore extended for new applications. So, the TDEMI® S can be used for communication and EMC testing, for full-compliance as well as pre-compliance measurements. In addition, due to the excellent technological characteristics regarding spurious suppression, dynamic, noise floor and HyperOverlapping technology, the TDEMI® S is convenient for applications where today's measurement instruments reach the limits of their possibilities. The extension with external mixers into the THz range allows the TDEMI® S to be used for certification measurements for 5G and beyond.

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Fig. TDEMI® S

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