



## Radio Frequency Engineering Seibersdorf

We are pleased to send you the Newsletter 1/2022 "RF-Engineering" of Seibersdorf Laboratories.

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### EMC Europe - Gothenburg, September 5-8, 2022

This year we are represented at the International Symposium and Exhibition in Gothenburg, Sweden:

At the **Symposium** we give two presentations:

Uncertainties and Limitations of Shielding Measurement with Two Antenna Methods; Stefan Cecil, Kurt Lamedschwandner

Numerical Simulation of Field Distribution Regarding Automotive Component EMC-testing According to ISO 11452-2; Andrea Hofer, Stefan Cecil

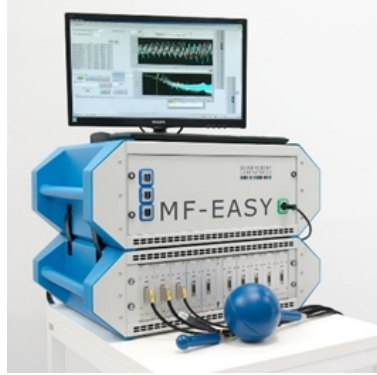
At the **Exhibition** our experts Gernot Schmid and Wolfgang Müllner are available at booth G03:12 and look forward to meeting you. We will present the new MF-EASY measurement system and the PLA Loop antennas.

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### MF-EASY

**M**agnetic **F**ield **E**xposure **A**ssessment **S**ystem

Fully isotropic, simultaneous multi-channel time domain



measurements of magnetic induction.

Scalable number of fully isotropic measurement channels: 5 / 10 / 15

DC up to 400 kHz by combined iso-centric Hall- and Coil-based sensors

Probe sizes: 100 cm<sup>2</sup>, 3 cm<sup>2</sup>, Ø 12 mm (Hall probes), others on request

Broadband Dynamic Range (depending on probe): 60 nT – 100 mT (3T)

Spectral Noise floor (after FFT): < 2 nT @ 50 Hz, < 1 nT @ > 100 Hz

Flexible analysis software for specific assessment regimes (WPM, MFR, etc.) and acc. to different standards (ICNIRP 1998, ICNIRP 2010, etc.)



## Test Instruments for EMC Test Site Validation

### Loop Antenna Set for Site Validations – PLA-Set

Active battery powered transmit loop antenna PLA-T and active receive loop antenna PLA-R are designed for NSIL testing in the frequency range 9 kHz – 30 MHz up to 10 m distance (CISPR 16-1-4 draft).

Also suitable for Shielding Effectiveness measurement with large dynamic range (EN50147-1, IEEE 299) and no need for additional power amplifier.

Antenna mounting and stand for easy change of orientation (x, y, z) and laser pointer for alignment included.

### RefRad X Comb generator – NEW version available soon!!!

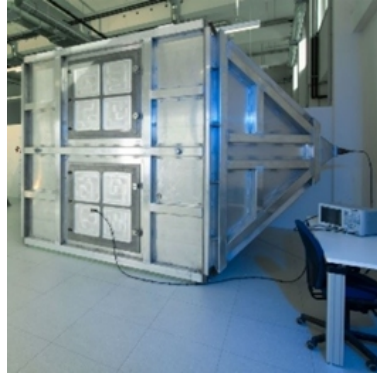
10 kHz up to 3 GHz for conducted and radiated emission test setup validation.

**POD Antenna** and antenna positioner for Site VSWR test in the frequency range 1 to 18 GHz.

[>> more about our Test Instruments](#)

## Accredited Calibration Service

During the recent years we have made scientific investigations regarding calibration procedures, which have been published



and integrated in the European and International standards.

The Accredited calibration of antennas and field probes in Seibersdorf is done on the reference open area test site, in different TEM-Cells and in the fully anechoic chamber. The open area test site is one of the best in Europe. Since 1996 we are the accredited calibration laboratory according to Akkreditierung Austria 0612.

Seibersdorf Laboratories offers accredited calibrations of the following equipment:

- EMF test systems (frequency selective)
- EMF test systems (broadband)
- Field strength transfer standards (e.g. RefRad)
- Line Impedance Stabilisation Network (LISN)
- Current Probe
- Cable, attenuator, coupler
- Antenna
- Field Probe

>> more about our Accredited Calibration Service

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