



# CALIBRATION

## ANTENNAS | FIELD PROBES | RF-EQUIPMENT

### YOUR BENEFIT

- Independent calibration laboratory
- Short turnaround time
- Flexible scheduling
- Calibration contracts
- Antenna calibration all the year round



CALIBRATION ACCORDING TO  
ANSI C 63.4, ANSI C 63.5, CISPR 16-1-6



### ANTENNA FEATURES

- Antenna factor
- Antenna pair reference
- VSWR
- Balun imbalance
- Gain
- Radiation pattern
- Cross polarisation

### FIELD PROBE FEATURES

- Calibration factor
- Linearity up to 1.2kV/m\*
- Isotropy

\* 1 GHz – 4 GHz: 1.2 kV/m; 4 GHz – 12 GHz: 600V/m; 12 GHz – 18 GHz: 300V/m

### CURRENT PROBE (MEASUREMENT/INJECTION) FEATURES

- Transfer impedance
- Magnetic saturation
- Insertion loss
- Insertion impedance
- VSWR, return loss

### LISN FEATURES

- Voltage division factor
- Impedance
- Isolation / decoupling factor
- DC resistance

### COMB GENERATOR FEATURES

- Coaxial output
- Field strength

### ATTENUATOR, AMPLIFIER, CABLE AND DIRECTIONAL COUPLER FEATURES

- Attenuation
- Gain
- VSWR

# CALIBRATION

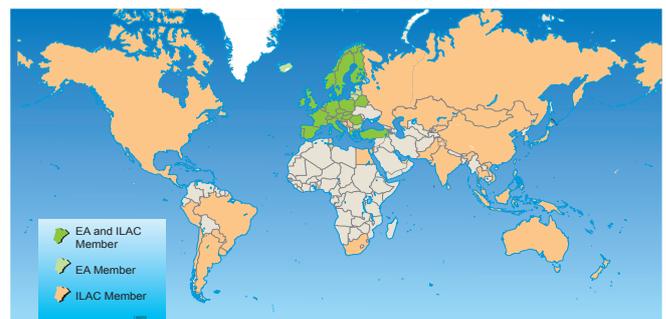
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### ACCREDITED CALIBRATION SERVICE

Measured Quantity	Frequency Range	Instrument: Conditions	Typical Measurement Uncertainty
Antenna Factor / Gain	20 - 6000 MHz	Antenna: OATS, Free-Space	1.0 - 1.8 dB
	0.2 - 40 GHz	Antenna: Fully Anechoic Chamber	1.0 - 1.7 dB
Antenna Pair Reference / Dual Antenna Factor	30 - 1000 MHz	Antenna: OATS Antenna: Free-Space	0.3 - 0.9 dB 0.7 - 1.3 dB
Electric Field Strength / Magnetic Field Strength / Magnetic Flux Density	DC - 40 GHz	Field Probe: TEM Cell, Fully Anechoic- and Reverberation Chamber, Coil	5 - 25 %
Insertion Loss	20 Hz - 1 GHz	Current Probe	0.3 - 0.6 dB
Transferimpedance / Transferadmittance	20 Hz - 1 GHz	LISN	3.5 - 7.1%; 0.3 - 0.6 dB
Voltage Division Factor	1 kHz - 400 MHz	LISN	0.12 - 0.3 dB
Magnitude Impedance / Magnitude Admittance	5 Hz - 3 GHz	LISN	2 - 3 %
Phase Impedance / Phase Admittance	5 Hz - 3 GHz	LISN	1.15 - 1.7 %
Isolation	0.001 - 400 MHz	LISN	0.3 dB
DC Resistance	DC	LISN	1%
Attenuation	100 Hz - 40 GHz	Cable, Attenuator	0.02 - 0.3 dB
Reflection Coefficient	100 Hz - 18 GHz	Antenna, Current Probe, LISN, Cable, Attenuator	0.0015 - 0.08

### WORLDWIDE ACCEPTANCE

Seibersdorf Laboratories accreditation for calibration is given by Akkreditierung Austria. Calibration certificates are recognised in all EA (European co-operation for accreditation) member states and in all ILAC (International Laboratory Accreditation Cooperation) countries and therefore accepted worldwide! Our calibrations are in accordance with national requirements e.g. COFRAG (LAB GTA 07).



### INTERNATIONAL COOPERATIONS

Calibration services from Seibersdorf Laboratories are offered via 19 partners in 25 countries. To find your nearest calibration partner please have a look at [www.seibersdorf-laboratories.at/rf](http://www.seibersdorf-laboratories.at/rf) or contact us directly.

Presented by:

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