



EMC Testing Equipment

A detailed list of fully accredited calibration services for EMC equipment.

Equipment Type	Range	Accredited	In-House	On-Site	Standard Calibration
Voltage Harmonics and Inter-Harmonics and THD Meter/Generator	Fundamental: 30V to 290V@50/60Hz Harmonics and Inter-Harmonics: 0,3V to 60V@55Hz±12kHz THD: 0 to 100%	X	X	X	IEC61000-3-2 and IEC61000-3-12
Current Harmonics and Inter-Harmonics and THD Meter/Generator	Fundamental: 80mA to 90A@50/60Hz Harmonics and Inter-Harmonics: 5mA to 30A@55Hz±12kHz THD: 0 to 100%	X	X	X	IEC61000-3-2 and IEC61000-3-12
Flicker	Pst = 1 ΔU/U: 0,4% to 3,2% Reference Impedance: According to IEC61000-3-3 and IEC61000-3-11	X	X	X	IEC61000-3-3
Electro Static Discharge Generator	Air Discharge DC Output Voltage: 2kV to 30kV Peak Current - Discharge Circuit: 7,5A to 112,50A Current@30ns - Discharge Circuit: 4A to 60A Current@60ns - Discharge Circuit: 2A to 30A Rise Time - Discharge Circuit: 600ps to 1000ps	X	X	X	IEC61000-4-2 and ISO TR 10605
Fast Transient/Burst - Generator	Peak Voltage into 50Ω: 0,25kV to 4kV Peak Voltage into 1000Ω: 0,25kV to 4kV Rise Time into 50Ω: 5ns Rise Time into 1000Ω: 5ns Pulse Width into 50Ω: 50ns Pulse Width into 1000Ω: 50ns to 150ns Frequency: 5kHz/100kHz Duration@5kHz: 15ms Duration@100kHz: 0,75ms Period: 300ms	X	X	X	IEC61000-4-4
Fast Transient/Burst - Coupling/Decoupling Network (CDN)	Peak Voltage into 50Ω: 4kV Rise Time into 50Ω: 5,5ns Pulse Width into 50Ω: 45ns	X	X	X	IEC61000-4-4
Fast Transient/Burst - Capacitive Clamp	Peak Voltage into 50Ω: 2kV Rise Time into 50Ω: 5ns Pulse Width into 50Ω: 50ns	X	X	X	IEC61000-4-4
Surge Generator	Open Circuit Peak Voltage: 0,5kV to 6kV Front Time Voltage: 1,2μs Time to half value Voltage: 50μs Short Circuit Peak Current: 0,25kA to 3kA Front Time Current: 8μs Time to half value Current: 20μs Output Impedance: 2-12Ω	X	X	X	IEC61000-4-5
Surge Generator - Coupling/Decoupling Network (CDN)	Open Circuit Peak Voltage: 0,5kV to 6kV Front Time Voltage: 1,2μs Time to half value Voltage: 50μs Short Circuit Peak Current: 0,25kA to 3kA Front Time Current: 2,5μs to 8μs Time to half value Current: 20μs to 25μs	X	X	X	IEC61000-4-5

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S-Parameters <i>(LISN/AMN, ISN, RF Cable, Attenuator, Directional Coupler, EM-Clamp, IEC61000-4-6 CDN) (CISPR 15 CDN, CISPR 16 CDN, Voltage Probe, Current Probe)</i>	Transmission Measurement: 9kHz to 50MHz@0dB to -40dB 50kHz to 3GHz@0dB to -50dB 50kHz to 3GHz@-50dB to -70dB 3GHz to 6GHz@0dB to -50dB 3GHz to 6GHz@-50dB to -70dB Reflection Measurement: 9kHz to 50MHz@0dB to -15dB 9kHz to 50MHz@-15dB to -25dB 9kHz to 50MHz@-25dB to -35dB	X	X	X	---
LISN/AMN	Impedance AE Open/Close Phase AE Open/Close Voltage Division Factor	X	X	X	CISPR16-1-2
ISN	Impedance AE Open/Close Phase AE Open/Close Decoupling LCL Voltage Division Factor	X	X	X	CISPR22
EM-CLAMP	Impedance Decoupling	X	X	X	IEC61000-4-6
CDN 61000-4-6	Impedance AE Open/Close	X	X	X	IEC61000-4-6
CDN CISPR	Impedance AE Open/Close Voltage Division Factor	X	X	X	CISPR15
Directional Coupler	Insertion Loss	X	X	X	IEC61000-4-3/6
Voltage Probe	Attenuation Transfer Impedance VSWR	X	X	X	CISPR14-1
Current Probe	Attenuation Transfer Impedance VSWR	X	X	X	IEC61000-4-6
RF Cable	Insertion Loss VSWR	X	X	X	---
Partitore Burst	Insertion Loss Input Impedance VSWR	X	X	X	IEC61000-4-4
Inductive Coil	Magnetic Field: 1A/m to 30A/m@50/60Hz Coil Factor and Field Uniformity: According to IEC61000-4-8		X	X	IEC61000-4-8
Voltage dips, short interruption and voltage variations	Output Voltage Voltage change with Load Output current capability Peak in rush current capability Overshoot and undershoot Rise and fall time Phase shifting	X	X	X	IEC61000-4-11 and IEC61000-4-34
Ring Wave Generator	Open Circuit Peak Voltage: 0,5kV to 6kV Rise Time Voltage: 0,5µs Frequency: 100kHz Decaying: Ratio from Peak Voltage Short Circuit Peak Current: up to 500A Rise Time Current: <1µs Output Impedance: 12-30Ω	X	X	X	IEC61000-4-12

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Ring Wave - Coupling/ Decoupling Network (CDN)	Open Circuit Peak Voltage: 0,25kV to 6kV Rise Time Voltage: 0,5µs Frequency: 100kHz Short Circuit Peak Current: up to 500A Rise Time Current: <1µs Output Impedance: 12-30Ω	X	X	X	IEC61000-4-12
Harmonics and Interharmonics Generator	THD (Harmonics and Interharmonics Flat curve, Over swing, Sweep in frequency, Meister curve Peak at 90°	X	X	X	IEC61000-4-13
Common Mode Disturbances	Generator for DC test, Continuous and short Duration Disturbances Generator for tests at main frequency 16,667Hz, 50Hz, 60Hz, Continuous and short Duration Disturbances Generator for test in the frequency range 15Hz to 150kHz THD, Open circuit output voltage, source impedance, frequency, rise and fall time”	X	X	X	IEC61000-4-16
NSA	Normalised Site Attenuation Horizontal/ Vertical: 30MHz to 1GHz	X	X	X	CISPR 16-1-4
Van Veen Loop/Large Loop Antenna	Validation Factor: According to CISPR 16-1-4		X	X	CISPR 16-1-4
Van Der Hoofden Test Head	Transfer Impedance	X	X	X	IEC 62493
Load Dump Test Pulse Generator	Supply Voltage Duration of Pulse Rise time Internal Resistance	X	X	X	ISO 16750-2

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