



CALIBRATION LABORATORY

Accredited Permanent Calibration laboratory



ACCREDIA CALIBRATION CENTRE LAT N° 103

Measurable and and Generable

HF Power

Field Strength

Strength

Magnetic

Permanent Calibration laboratory

	Voltage
SO 9001	Current
SO 17025	Current for Current clamps
QUANTITIES	Resistance
	Capacitance
	Temperature
	Attenuation
	Frequency
	RF Power
	VSWR
	High Frequency Impedance
	Electric field Strenght
	Magnetic field Strenght
	Pulses
	Power Flux Density
	Voltage Transients



Accredited Permanent Calibration laboratory

ACCREDIA CALIBRATION CENTRE LAT N° 103





ACCREDIA Accredited Calibrations UNI CEI EN ISO/IEC 17025

Established in 1997, the TESEO Metrological Laboratory was
Accredited by the National Metrological Institute in 1998 for calibration
of RF quantities, and in 2003 for Electromagnetic Field calibrations.
Equipped with two metrological rooms with different temperaturecontrolled levels, the Accredited Calibration Centre is today able to
perform calibrations and checks on most of key instruments for EMC
applications

Generable : 10 kHz ÷ 100 kHz	from 10 nW to 5 mW
Generable : 100 kHz ÷ 18 GHz	from 1 nW to 5 mW
Measurable : 10 kHz ÷ 18 GHz	from 10 nW to 100 mW
Measurable : 10 MHz ÷ 18 GHz	from 1 nW to 100 mW
Measurable : 100 kHz ÷ 4 GHz	from 10 nW to 10 W

Electric Field	Strength
(Field Probes)

10 kHz ÷ 200 MHz	from 1 to 200 V/m
200 MHz ÷ 3 GHz	from 1 to 60 V/m

Magnetic Field Strength (Field Probes)

10 kHz ÷ 200 MHz from 2.65 to 530 mA/m

Frequency

Generable: from 1 Hz to 18 GHz

Measurable: from 1 Hz to 2.7 GHz



ACCREDIA CALIBRATION CENTRE LAT N° 103

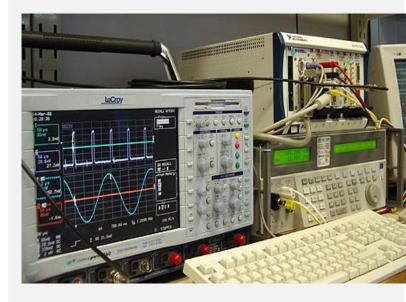


Permanent Calibration laboratory

CALIBRATION CENTRE ISO 9001 – ISO 17025

Voltage	DC 0 ÷ 1020V; AC 1mV ÷ 1020V
	10 Hz ÷ 500 kHz
Current	DC 0 ÷ 11A; AC 0.01μA ÷ 11A
Current	· ,
	10 Hz ÷ 10 kHz
Current for Current clamps	AC 0.01μA ÷ 1000A; AC 0.01μA ÷ 600A
	10 Hz ÷ 1 kHz
Resistance	Short \div 330M Ω
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Capacitance	330pF ÷ 1100μF
Temperature (Thermocouples)	330pF ÷ 1100μF
	
Temperature (Thermom. chains)	-40°C ÷ 180°C
Attenuation	0dB ÷ 60dB
	10 kHz ÷ 18 GHz

Frequency	1 Hz ÷ 20 GHz
RF Power	10 kHz ÷ 18 GHz
	+57dBm ÷ -60dBm
VSWR	10 kHz ÷ 18 GHz
High Frequency Impedance	10 kHz ÷ 18 GHz
Electric field Strenghth	10 kHz ÷ 18 GHz
	from 1 V/m to 10 kV/m
Magnetic field Strength	10 kHz ÷ 1 GHz
	from 200 mA/m to 80 A/m
Power Flux	10 kHz ÷ 3 GHz
Density	from 265 nW/cm2 to 24 mW/cm²
Pulses	from 0 to 20 kV
	DC ÷ 2 GHz
Voltage transients	(min 500ps rise-time)



Calibrations according to the UNI EN ISO 9001:2015 quality system

Operating in ISO9001 and ISO17025 Quality System, TESEO uses for its Calibration activities First-Line and Second-Line Standards and validated Calibration Procedures allowing to perform calibrations and checks on measurement fields ranging from DC to 40GHz, for power levels up to 10kW and voltages over 30kV.



On-Site Calibrations



CALIBRATION CENTRE ISO 9001 - ISO 17025

Voltage	DC 0 ÷ 1020V; AC 1mV ÷ 1020V
	10 Hz ÷ 500 kHz
Current	DC 0 ÷ 11A; AC 0.01μA ÷ 11A
	10 Hz ÷ 10 kHz
Current for Current clamps	AC 0.01μA ÷ 1000A; AC 0.01μA ÷ 600A
	10 Hz ÷ 1 kHz
Resistance	Short \div 330M Ω
Capacitance	330pF ÷ 1100μF

Temperature (Thermocouples)	330pF ÷ 1100μF
Attenuation	0dB ÷ 60dB
	10 kHz ÷ 18 GHz
Frequency	1 Hz ÷ 20 GHz
RF Power	10 kHz ÷ 18 GHz
	+57dBm ÷ -60dBm
VSWR	10 kHz ÷ 18 GHz

High Frequency Impedance	10 kHz ÷ 18 GHz
Pulses	from 0 to 20 kV
	DC ÷ 2 GHz
Voltage transients	(min 500ps rise-time)



On-Site Calibrations according to the UNI EN ISO 9001:2015 quality system

Thanks to a Second-Line Standards equipment, TESEO can perform calibrations directly at Customer's facility. Thanks to this Service, the calibration process becomes more safe, avoiding to ship delicate equipment by courrier, faster, by booking exactly the days for calibrations, as well cheaper, especially for medium/large instrument stocks.



National Instruments Calibrations



NATIONAL INSTRUMENTS CALIBRATION ISO 9001 - ISO 17025



NATIONAL INSTRUMENTS Calibrations UNI CEI EN ISO/IEC 17025:2017

For years partner of National Instruments as Alliance Member, TESEO extends the services on NI products with calibration and adjustment of boards and measurement - acquisition systems.

The TESEO Calibration Laboratory is equipped with NI validated procedures for calibration and readjustment.

Voltage	DC 0 ÷ 1020V; AC 1mV ÷ 1020V
	10 Hz ÷ 500 kHz
Current	DC 0 ÷ 11A; AC 0.01μA ÷ 11A
	10 Hz ÷ 10 kHz
Temperature (Simulator)	-210°C ÷ 1370°C
High Frequency Impedance	10 kHz ÷ 18 GHz
Resistance	Short \div 330M Ω

Capacitance	330pF ÷ 1100μF
Attenuation	0dB ÷ 60dB
	10 kHz ÷ 18 GHz
Frequency	1 Hz ÷ 20 GHz
LF and RF Power	10 Hz ÷ 18 GHz
	+57dBm ÷ -60dBm
VSWR	10 kHz ÷ 18 GHz

Analog I/O Functions	1 Hz ÷ 20 GHz
Digital I/O Fuctions	1 Hz ÷ 20 GHz





External Partners Calibrations

ACCREDITED AND ISO 9001 QUANTITIES



QUANTITIES

AC and DC Voltage	Attenuation
AC and DC Current	Gain for Amplifier
AC Current for Current clamps	Antenna Factor for antennas
Resistance	Electromagnetic Filed Strength
Capacitance	Flux Density
Inductance	Harmonic Distortion
Temperature	AM and FM Modulation Capacity
Time and Frequency	RF Current for Clamps
Pulses (ESD, Bursts, Surges)	VSWR
Voltage/Current Ratio	High Frequency Impedance
Voltage transients	Illumination
LF and RF Power	Pressure
Optical Quantities	Sound
Opucai Quaniiles	Souria







Italian Accreditation Body

Dutch Accreditation Council

Austrian Accreditation

ILAC Signatory **Accredited** Calibrations and UNI CEI EN ISO/IEC 17025:2005 Calibrations

Further than Accredited Calibration performed in his Accredited Calibration Laboratory, TESEO offers a wide range of Accredited Calibrations covering almost all the Electric and Electronic Quantities, thanks to exclusive collaboration with National and International Accedited Partners.







Booking of the calibration in order to reduce the turnaround time

To minimize the calibration time, our laboratory can be booked for your instruments.

Fast Calibrations (24H) on demand

When applicable, upon request we can grant the calibration time in maximum 24 hours (shipping time excluded)

Auto-recall

We will remind you the expiry calibration date of your equipment when in our database. Then the new calibration can be booked at your convenience.

Pick-Up and Delivery

TESEO can also manage the instrument pick-up and subsequent delivery after calibration completion. This service is carried out by our Technical personnel, or by dedicated transports by trusted curriers

Yearly and multi-yearly framework contracts

Optimization of your administrative costs and calibration management, granted turn-around time, one single interface for all your periodical calibration needs.

Maintenance and repair quotations

What happens if an instrument is found faulty or out-of-specs during calibration? TESEO can manage all repair procedures in order to always assure the full-functionality.

Consultancy

Any doubt about how to calibrate your instruments? TESEO offers consultancy about the metrological confirmation of your equipment.

Professional training

On measurement methods and uncertainty of measurement evaluation, with ISO 17025:2017 deployment trainings.

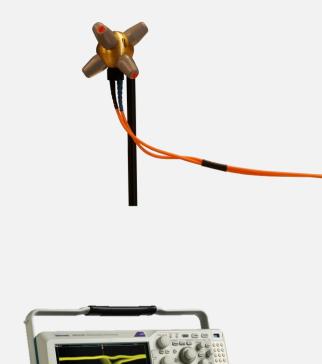
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Metrological Laboratory