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CERTIFICATE OF ACCREDITATION

This is to attest

ELDOR TK CALIBRATION LABORATORY DBA ELDOR ELEKTRONIK VE PLASTIK MLZ. ÜRT. VE TIC. LTD. ŞTI.

AYHAN STREET EGE FREE ZONE GAZIEMIR
IZMIR, 35410, TURKEY

Calibration Laboratory CL-304

has met the requirements of AC204, *IAS Accreditation Criteria for Calibration Laboratories*, and has demonstrated compliance with ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories*. This organization is accredited to provide the services specified in the scope of accreditation.

Expiration Date March 1, 2026
Effective Date February 7, 2025



International Accreditation Service
Issued under the authority of IAS management

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Accredited to ISO/IEC 17025:2017

Effective Date February 7, 2025

CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY ^{1,2} (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT (OPTIONAL)
Dimensional			
Caliper	$0 \leq L \leq 400 \text{ mm}$	$2.9 \times 10^{-5} \times L + 0.0085 \text{ mm}$	VDI/VDE/DGQ 2618 Section 9.1 Direct measurement by using Reference Block and ring set L: Measured value (mm)
External Micrometer	$0 \leq L \leq 25 \text{ mm}$	$2.0 \times 10^{-5} \times L + 0.0011 \text{ mm}$	VDI/VDE/DGQ 2618 Section 10.1 Direct measurement by using Reference Block and Optical Parallel set L: Measured value (mm)
	$25 \leq L \leq 75 \text{ mm}$	$3.5 \times 10^{-5} \times L + 0.0011 \text{ mm}$	
	$75 \leq L \leq 100 \text{ mm}$	$4.0 \times 10^{-5} \times L + 0.001 \text{ mm}$	
Mechanical			
Scale	$1 \text{ mg} \leq m \leq 600 \text{ g}$	$(1.0 \times 10^{-6} \times m) \text{ g}$	EURAMET/CG-18 Direct measurement by using Reference mass set (E2-F1-M1) m: Measured value
	$1 \text{ g} \leq m \leq 30000 \text{ g}$	$(1.2 \times 10^{-5} \times m) \text{ g}$	
	$0,5 \text{ kg} \leq m \leq 50 \text{ kg}$	$(2.7 \times 10^{-4} \times m) \text{ kg}$	
Thermal			
Temperature Indicator with Sensor	$-15 \text{ °C} \leq T \leq 40 \text{ °C}$	$2.0 \times 10^{-1} \text{ °C}$	Comparison method by using Reference Thermometer And Reference SPRT T: Measured value
	0 °C	$8.0 \times 10^{-2} \text{ °C}$	
	$40 \text{ °C} \leq T \leq 150 \text{ °C}$	$1,5 \times 10^{-1} \text{ °C}$	
	$150 \text{ °C} \leq T \leq 300 \text{ °C}$	$1.5 \times 10^{-1} \text{ °C}$	

* If information in this CMC is presented in non-SI units, the conversion factors stated in NIST Special Publication 811 "Guide for the Use of the International System of Units (SI)" apply.

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MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY ^{1,2} (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT (OPTIONAL)
Oven, Refrigerator, Freezer	$-40\text{ °C} \leq T \leq 150\text{ °C}$	1.7 °C	EURAMET/CG-20 Direct measurement by using Temperature Datalogger and Probe T: Measured value
Electrical – DC/LF			
Power Supply - DC V	$10\text{ mV} \leq V < 100\text{ mV}$	$1.5 \times 10^{-5} \times V + 0.7\text{ mV}$	EURAMET CG-15 Direct measurement by using Reference Multimeter V: Measured value
	$0.1\text{ V} \leq V < 1\text{ V}$	$(1.5 \times 10^{-5} \times V + 0.7\text{ mV})\text{ V}$	
	$1\text{ V} \leq V < 10\text{ V}$	$(1.5 \times 10^{-5} \times V + 1.0\text{ mV})\text{ V}$	
	$10\text{ V} \leq V < 100\text{ V}$	$(1.0 \times 10^{-4} \times V + 10\text{ mV})\text{ V}$	
Power Supply – DC A	$1\text{ mA} \leq A < 100\text{ mA}$	$(5.0 \times 10^{-4} \times A + 60\text{ }\mu\text{A})\text{ mA}$	EURAMET CG-15 Direct measurement by using Reference Multimeter A: Measured value
	$0.1\text{ A} \leq A < 1\text{ A}$	$(3.0 \times 10^{-3} \times A + 0.6\text{ mA})\text{ A}$	
	$1\text{ A} \leq A < 3\text{ A}$	$(3.0 \times 10^{-3} \times A + 1.6\text{ mA})\text{ A}$	
	$3\text{ A} \leq A < 10\text{ A}$	$(3.0 \times 10^{-3} \times A + 6.0\text{ mA})\text{ A}$	Direct measurement by using Reference Multimeter and Shunt A: Measured value
	$1\text{ A} \leq I \leq 50\text{ A}$	$(5.0 \times 10^{-4} \times A + 60\text{ mA})\text{ A}$	
DC Voltage – Meter	$1\text{ mV} \leq V < 200\text{ mV}$	$(3.0 \times 10^{-5} \times V + 5\text{ }\mu\text{V})\text{ mV}$	EURAMET CG-15 Direct measurement by using Multi Product Calibrator V: Measured value
	$0.2\text{ V} \leq V < 2\text{ V}$	$(4.0 \times 10^{-6} \times V + 5\text{ }\mu\text{V})\text{ V}$	
	$2\text{ V} \leq V < 20\text{ V}$	$(2.0 \times 10^{-5} \times V + 0.1\text{ mV})\text{ V}$	
	$20\text{ V} \leq V < 200\text{ V}$	$(2.5 \times 10^{-5} \times V + 1.5\text{ mV})\text{ V}$	
	$200\text{ V} \leq V < 1000\text{ V}$	$(3.0 \times 10^{-5} \times V + 10\text{ mV})\text{ V}$	
DC Current – Meter	$20\text{ }\mu\text{A} \leq A < 200\text{ }\mu\text{A}$	$(1.5 \times 10^{-4} \times A + 50\text{ nA})\text{ }\mu\text{A}$	EURAMET CG-15 Direct measurement by using Multi Product Calibrator A: Measured value
	$0.2\text{ mA} \leq A < 2\text{ mA}$	$(1.0 \times 10^{-4} \times A + 0.1\text{ }\mu\text{A})\text{ mA}$	
	$2\text{ mA} \leq A < 20\text{ mA}$	$(1.0 \times 10^{-4} \times A + 0.5\text{ }\mu\text{A})\text{ mA}$	
	$20\text{ mA} \leq A < 200\text{ mA}$	$(1.0 \times 10^{-4} \times A + 25\text{ }\mu\text{A})\text{ mA}$	
	$0.2\text{ A} \leq A < 2\text{ A}$	$(1.5 \times 10^{-4} \times A + 0.5\text{ mA})\text{ A}$	
	$2\text{ A} \leq A < 30\text{ A}$	$(2.5 \times 10^{-4} \times A + 25\text{ mA})\text{ A}$	
DC Clamp meter	$30\text{ A} \leq A < 60\text{ A}$	$9.5 \times 10^{-3} \times A + 0.1\text{ A}$	EURAMET CG-15 Direct measurement by using Multi Product Calibrator and Clamp Coil Adapter (2-10-50 Turn) A: Measured value
	$60\text{ A} \leq A < 300\text{ A}$	$9.5 \times 10^{-3} \times A + 0.3\text{ A}$	
	$300\text{ A} \leq A < 1500\text{ A}$	$9.5 \times 10^{-3} \times A + 0.5\text{ A}$	
AC Voltage – Meter	$20\text{ mV} \leq V < 200\text{ mV}$	$(3.0 \times 10^{-4} \times V + 50\text{ }\mu\text{V})\text{ mV}$	EURAMET CG-15 Direct measurement by using
	$0.2\text{ V} \leq V < 2\text{ V}$	$(2.5 \times 10^{-4} \times V + 0.5\text{ mV})\text{ V}$	

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(50 Hz ≤ F ≤ 1 kHz)	2 V ≤ V < 20 V	(2.5 × 10 ⁻⁴ × V + 5.0 mV) V	Multi Product Calibrator V: Measured value
	20 V ≤ V < 200 V	(5.5 × 10 ⁻⁴ × V + 50 mV) V	
	200 V ≤ V < 1000 V	(6.5 × 10 ⁻⁴ × V + 100 mV) V	
AC Current – Meter (50 Hz ≤ F ≤ 1 kHz)	20 μA ≤ A < 200 μA	2.5 × 10 ⁻³ × A + 0.3 μA	EURAMET CG-15 Direct measurement by using Multi Product Calibrator A: Measured value
	0.2 mA ≤ A < 2 mA	(5.5 × 10 ⁻⁴ × A + 1 μA) mA	
	2 mA ≤ A < 20 mA	(3.5 × 10 ⁻⁴ × A + 10 μA) mA	
	20 mA ≤ A < 200 mA	(3.5 × 10 ⁻⁴ × A + 100 μA) mA	
	0.2 A ≤ A < 2 A	(4.5 × 10 ⁻⁴ × A + 1 mA) A	
	2 A ≤ A < 30 A	(5.0 × 10 ⁻⁴ × A + 50 mA) A	
AC Clamp meter (50 Hz ≤ F ≤ 1 kHz)	30 A ≤ A < 60 A	9.5 × 10 ⁻³ × A + 0.1 A	EURAMET CG-15 Direct measurement by using Multi Product Calibrator and Clamp Coil Adapter (2-10-50 Turn) A: Measured value
	60 A ≤ A < 300 A	9.5 × 10 ⁻³ × A + 0.3 A	
	30 A ≤ A < 1500 A	9.5 × 10 ⁻³ × A + 0.5 A	
DC Resistance – Meter	0 Ω	0.008 Ω	EURAMET CG-15 Direct measurement by using Multi Product Calibrator R: Measured value
	0,1 Ω	(2.0 × 10 ⁻⁷ × R + 8 mΩ) Ω	
	1 Ω	(2.0 × 10 ⁻⁷ × R + 9 mΩ) Ω	
	10 Ω	(2.0 × 10 ⁻⁷ × R + 10 mΩ) Ω	
	100 Ω	(2.0 × 10 ⁻⁷ × R + 15 mΩ) Ω	
	1 kΩ	(1.0 × 10 ⁻⁷ × R + 0,1 Ω) kΩ	
	10 kΩ	(1.0 × 10 ⁻⁷ × R + 1 Ω) kΩ	
	100 kΩ	(1.0 × 10 ⁻⁷ × R + 10 Ω) kΩ	
	1 MΩ	0.0005 MΩ	
	10 MΩ	0.005 MΩ	
	100 MΩ	1 MΩ	
	1000 MΩ	15 MΩ	
DC Resistance – Meter	10 mΩ ≤ R ≤ 1000 mΩ	1.5 × 10 ⁻⁴ × R + 2.5 mΩ	EURAMET CG-15 Direct measurement by using Resistance Decade Box R: Measured value
	1 Ω ≤ R ≤ 1000 Ω	(1.5 × 10 ⁻⁴ × R + 3 mΩ) Ω	
	1 kΩ ≤ R ≤ 10 kΩ	(1.5 × 10 ⁻⁴ × R + 5 mΩ) Ω	
	10 kΩ ≤ R ≤ 100 kΩ	(1.5 × 10 ⁻⁴ × R + 15 mΩ) Ω	
	100 kΩ ≤ R ≤ 1000 kΩ	(1.5 × 10 ⁻⁴ × R + 50 mΩ) kΩ	
	1 MΩ ≤ R ≤ 10 MΩ	(4.0 × 10 ⁻⁴ × R + 50 mΩ) MΩ	
	10 MΩ ≤ R ≤ 100 MΩ	(5.0 × 10 ⁻³ × R + 50 kΩ) MΩ	
Inductance – LCR Meter	1 mH / 10 mH / 20 mH / 30 mH /	(7.0 × 10 ⁻³ × L) mH	EURAMET CG-15

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(1 V to 1 kHz)	50 mH / 100 mH		Direct measurement by using Multi Product Calibrator in Decade Mode L: Measured value
	1 H / 10 H	$(7.0 \times 10^{-3} \times L) \text{ H}$	
Inductance – LCR Meter (1 V to 1 kHz)	$100 \mu\text{H} \leq L \leq 1000 \mu\text{H}$	$(2.5 \times 10^{-2} \times L + 1 \text{ nH}) \mu\text{H}$	EURAMET CG-15 Direct measurement by using Inductance Decade Box L: Measured value
	$1 \text{ mH} \leq L \leq 10 \text{ mH}$	$(3.0 \times 10^{-2} \times L + 5 \text{ nH}) \text{ mH}$	
	$10 \text{ mH} \leq L \leq 100 \text{ mH}$	$(2.0 \times 10^{-2} \times L + 50 \text{ nH}) \text{ mH}$	
	$100 \text{ mH} \leq L \leq 1000 \text{ mH}$	$(1.0 \times 10^{-2} \times L + 0,5 \mu\text{H}) \text{ mH}$	
	$1 \text{ H} \leq L \leq 10 \text{ H}$	$(1.5 \times 10^{-1} \times L + 1 \text{ mH}) \text{ H}$	
Capacitance - LCR Meter (1 V to 1 kHz)	$1 \text{ nF} \leq C \leq 100 \text{ nF}$	$(5.0 \times 10^{-3} \times C + 3 \text{ pF}) \text{ nF}$	EURAMET CG-15 Direct measurement by using Multi Product Calibrator in Decade Mode C: Measured value
	$1 \mu\text{F} \leq C \leq 10 \mu\text{F}$	$(1.0 \times 10^{-2} \times C + 3 \text{ nF}) \mu\text{F}$	
Capacitance - LCR Meter (1 V to 1 kHz)	$60 \text{ pF} \leq C \leq 10000 \text{ pF}$	$6.0 \times 10^{-3} \times C + 6 \text{ pF}$	EURAMET CG-15 Direct measurement by using Capacitance Decade Box C: Measured value
	$10 \text{ nF} \leq C \leq 1000 \text{ nF}$	$(6.0 \times 10^{-3} \times C + 6 \text{ pF}) \text{ nF}$	
AC Resistance – LCR Meter (1 V to 1 kHz)	$10 \Omega \leq R \leq 100 \Omega$	$(6.0 \times 10^{-3} \times R + 0.5 \text{ m}\Omega) \Omega$	EURAMET CG-15 Direct measurement by using Resistance Decade Box R: Measured value
	$100 \Omega \leq R \leq 1000 \Omega$	$(6.0 \times 10^{-3} \times R + 1.0 \text{ m}\Omega) \Omega$	
	$1 \text{ k}\Omega \leq R \leq 10 \text{ k}\Omega$	$(6.0 \times 10^{-3} \times R + 10 \text{ m}\Omega) \text{ k}\Omega$	
	$10 \text{ k}\Omega \leq R \leq 100 \text{ k}\Omega$	$(6.0 \times 10^{-3} \times R + 20 \text{ m}\Omega) \text{ k}\Omega$	
Oscilloscope - Vertical Deflection (Amplitude)	$2 \text{ mV/Div} \leq V \leq 100 \text{ mV/Div}$	$(5.0 \times 10^{-3} \times V + 35 \mu\text{V}) \text{ mV}$	EURAMET CG-07 Direct measurement by using Multi Product Calibrator V: Measured value
	$200 \text{ mV/Div} \leq V \leq 10 \text{ V/Div}$	$(5.0 \times 10^{-3} \times V + 3.0 \text{ mV}) \text{ V}$	
	$20 \text{ V/Div} \leq V \leq 50 \text{ V/Div}$	$5.0 \times 10^{-3} \times V + 0.7 \text{ V}$	
Oscilloscope - Horizontal Deflection (Time)	$20 \text{ ns} \leq t \leq 1 \text{ s}$	$5.0 \times 10^{-3} \times t$	EURAMET CG-07 Direct measurement by using Multi Product Calibrator t: Measured value

¹The uncertainty covered by the Calibration and Measurement Capability (CMC) is expressed as the expanded uncertainty having a coverage probability of approximately 95 %. It is the smallest measurement uncertainty that a laboratory can achieve within its scope of accreditation when performing calibrations of a best existing device. The measurement uncertainty reported on a calibration certificate may be greater than that provided in the CMC due to the behavior of the calibration item and other factors that may contribute to the uncertainty of a specific calibration.

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²When uncertainty is stated in relative terms (such as percent, a multiplier expressed as a decimal fraction or in scientific notation), it is in relation to instrument reading or instrument output, as appropriate, unless otherwise indicated.

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