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, REPUBLIC OF TÜRKIYE

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, 2027
Effective Date February 9, 2026

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SCOPE OF ACCREDITATION

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

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Accredited to ISO/IEC 17025:2017 *Effective Date February 9, 2026*

CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY1,2 (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT (OPTIONAL)
Dimensional			
Caliper	0 mm ≤ L ≤ 600 mm	$2.0 \times 10^{-5} \times L + 8.5$ µm	Direct measurement by using Reference Block and ring set L: Measured value (mm)
External Micrometer	0 mm ≤ L ≤ 25 mm	$1.0 \times 10^{-5} \times L + 0.0011$ mm	Direct measurement by using Reference Block and Optical Parallel set L: Measured value (mm)
	25 mm ≤ L ≤ 100 mm	$2.5 \times 10^{-5} \times L + 0.0015$ mm	
Height Gauge	0 mm ≤ L ≤ 1000 mm	$3.0 \times 10^{-5} \times L + 3$ µm	Direct measurement by using Reference Block set L: Measured value(mm)
Feeler Gauge	0.01 mm ≤ L ≤ 1 mm	$1.0 \times 10^{-5} \times L + 0.001$ mm	DIN 2275 Direct measurement by using High Accuracy Micrometer L: Measured value(mm)
Go/NoGo Gauge	0.1 mm ≤ L ≤ 25 mm	$1.0 \times 10^{-5} \times L + 0.001$ mm	Direct measurement by using High Accuracy Micrometer L: Measured value(mm)
Pin Gauge Plug Gauges	0.01 mm ≤ L ≤ 25 mm	$1.0 \times 10^{-5} \times L + 0.001$ mm	Direct measurement by using High Accuracy Micrometer L: Measured value(mm)

** 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.*

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY1,2 (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT (OPTIONAL)
Mechanical			
Scale	1 mg ≤ m ≤ 600 g	(1.0 x 10^{-6} x m) g	EURAMET/CG-18 Direct measurement by using Reference mass set *(E2-F1-M1)* m: Measured value
	1 g ≤ m ≤ 30000 g	(1.0 x 10^{-5} x m) g	
	0.5 kg ≤ m ≤ 50 kg	(2.7 x 10^{-4} x m) kg	
Thermal			
Temperature Indicator with Sensor	-15 °C ≤ T ≤ 40 °C	2.0 x 10^{-1} °C	Comparison method by using Reference Thermometer And Reference SPRT T: Measured value
	0 °C	8.0 x 10^{-2} °C	
	40 °C ≤ T ≤ 150 °C	1.5 x 10^{-1} °C	
	150 °C ≤T ≤ 300 °C	3.0 x 10^{-1} °C	
Oven, Refrigerator, Freezer	-40 °C ≤ T ≤ 150 °C	0.7 °C	EURAMET/CG-20 Direct measurement by using Temperature Datalogger and Probe T: Measured value
Temperature Indicator Simulate Type K Thermocouple	-60 °C ≤ T ≤ 1200 °C	2.0 x 10^{-4} x T + 0.5 °C	EURAMET/CG-11 Direct measurement by using Electrical Multifunction Calibrator T: Measured value
Simulate Type J Thermocouple	-100 °C ≤ T ≤ 1200 °C	1.0 x 10^{-5} x T + 0.5 °C	
Simulate PT100 Sensor	-100 °C ≤ T ≤ 800 °C	1.0 x 10^{-5} x T + 0.25 °C	
Electrical – DC/LF			
Power Supply[4] DC V	10 mV ≤ V < 100 mV	1.0 x 10^{-3} x V + 0.6 mV	EURAMET CG-15 Direct measurement by using Reference Multimeter V: Measured value
	0.1 V ≤ V < 1 V	1.0 x 10^{-3} x V + 0.6 mV	
	1 V ≤ V < 10 V	1.5 x 10^{-2} x V + 0.6 mV	
	10 V ≤ V < 100 V	2.5 x 10^{-2} x V + 6 mV	
	100 V ≤ V ≤ 1000 V	8.0 x 10^{-2} x V + 6 mV	
Power Supply[4] DC A	1 mA ≤ A < 100 mA	5.0 x 10^{-4} x A + 60 µA	EURAMET CG-15 Direct measurement by using Reference Multimeter A: Measured value
	0.1 A ≤ A < 1 A	1.0 x 10^{-3} x A + 0.6 mA	
	1 A ≤ A < 3 A	3.0 x 10^{-3} x A + 1.6 mA	
	3 A ≤ A < 10 A	3.0 x 10^{-3} x A + 6.0 mA	
	1 A ≤ I ≤ 50 A	1.0 x 10^{-3} x A + 10 mA	Direct measurement by using Reference Multimeter and Shunt A: Measured value
	50 A < A ≤ 100 A	1.5 x 10^{-3} x A + 50 mA	

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY1,2 (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT (OPTIONAL)
	100 A < A ≤ 850 A	$1.5 \times 10^{-2} \times A + 0.5$ A	Direct measurement by using Reference Clamp Meter A: Measured value
Power Supply – AC V[4] (50 Hz ≤ F ≤ 1 kHz)	0.1 V ≤ V < 10 V	$1.0 \times 10^{-3} \times V + 6$ mV	EURAMET CG-15 Direct measurement by using Reference Multimeter V: Measured value
	10 V ≤ V < 100 V	$1.0 \times 10^{-3} \times V + 60$ mV	
	100 V ≤ V < 750 V	$1.0 \times 10^{-3} \times V + 0.3$ V	
Power Supply AC A[4] (50 Hz ≤ F ≤ 1 kHz)	10 mA ≤ A < 100 mA	$5.0 \times 10^{-4} \times A + 0.6$ mA	EURAMET CG-15 Direct measurement by using Reference Multimeter A: Measured value
	0.1 A ≤ A < 1 A	$5.0 \times 10^{-4} \times A + 6$ mA	
	1 A ≤ A < 3 A	$3.0 \times 10^{-3} \times A + 6$ mA	
	3 A ≤ A < 10 A	$5.0 \times 10^{-4} \times A + 60$ mA	
Power Supply – AC A[4] (50 Hz)	10 A ≤ A < 800 A	$1.5 \times 10^{-2} \times A + 0.8$ A	Direct measurement by using Reference Clamp Meter A: Measured value
Resistance Box[4] DC Resistance	1 Ω ≤ R ≤ 100 Ω	$7.0 \times 10^{-5} \times R + 5.0$ mΩ	EURAMET CG-15 Direct 4 wire measurement by using Reference Multimeter R: Measured value
	0.1 kΩ ≤ R ≤ 1 kΩ	$5.0 \times 10^{-5} \times R + 15$ mΩ	
	1 kΩ ≤ R ≤ 10 kΩ	$5.0 \times 10^{-5} \times R + 0.15$ Ω	
	10 kΩ ≤ R ≤ 100 kΩ	$5.0 \times 10^{-5} \times R + 2.0$ Ω	
	0.1 MΩ ≤ R ≤ 1 MΩ	$1.0 \times 10^{-4} \times R + 0.01$ kΩ	EURAMET CG-15 Direct 2 wire measurement by using Reference Multimeter R: Measured value
	1 MΩ ≤ R ≤ 10 MΩ	$3.0 \times 10^{-4} \times R + 0.2$ kΩ	
	10 MΩ ≤ R ≤ 100 MΩ	$4.0 \times 10^{-3} \times R + 3.0$ kΩ	
Capacitance Box[4]	100 pF ≤ C < 1000 nF	$7.0 \times 10^{-4} \times C$	EURAMET CG-15 Direct measurement by using Reference LCR Meter C: Measured value
Inductance Box[4]	0.1 mH ≤ L < 1000 mH	$7.0 \times 10^{-4} \times L$	EURAMET CG-15 Direct measurement by using Reference LCR Meter L: Measured value
Resistance Box – AC Resistance	10 Ω ≤ R ≤ 100 kΩ	$7.0 \times 10^{-4} \times R$	EURAMET CG-15 Direct measurement by using Reference LCR Meter R: Measured value
Insulation tester[3] – DC V	50 V ≤ V ≤ 1000 V	$6.5 \times 10^{-4} \times V + 0.1$ V	IEC 60060 Direct measurement by using Reference Multimeter V: Measured value
	1 kV ≤ V ≤ 10 kV	$(1.0 \times 10^{-2} \times V + 20$ V)	Direct measurement by using

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY1,2 (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT (OPTIONAL)
			Reference Multimeter and Voltage Probe V: Measured value
Insulation tester[3] – AC V (50 Hz)	50 V ≤ V ≤ 1000 V	$7.5 \times 10^{-3} \times V + 0.1$ V	IEC 60060 Direct measurement by using Reference Multimeter V: Measured value
Insulation tester[3] – DC Withstand(DCA) 0.1 kV ≤ V ≤ 6 kV	20 µA ≤ A ≤ 4000 µA	$9 \times 10^{-4} \times A + 0.3$ µA	IEC 60060 Comparative measurement by using Reference Multimeter A:Measured value V: Set Voltage
	5 mA ≤ A ≤ 40 mA	$(6.0 \times 10^{-4} \times A + 15$ µA)	
	50 mA ≤ A ≤ 60 mA	$(2.0 \times 10^{-3} \times A + 25$ µA)	
Insulation tester[3] – AC Withstand(ACA) 0.1 kV ≤ V ≤ 6 kV – 50 Hz	0.2 mA ≤ A ≤ 4 mA	$(8.0 \times 10^{-3} \times A + 0.6$ µA)	IEC 60060 Comparative measurement by using Reference Multimeter A:Measured value V: Set Voltage
	5 mA ≤ A ≤ 50 mA	$(8.0 \times 10^{-3} \times A + 20$ µA)	
Insulation tester[3] – Insulation Resistance (IR) 100 V ≤ V ≤ 5000 V	100 kΩ ≤ R ≤ 5 GΩ	$1.5 \times 10^{-2} \times R$	IEC 60060 Direct measurement by using Reference Resistance Box R: Measured value
DC Voltage[3] – Meter	1 mV ≤ V < 200 mV	$3.0 \times 10^{-5} \times V + 4.5$ µV	EURAMET CG-15 Direct measurement by using Multi Product Calibrator V: Measured value
	0.2 V ≤ V < 2 V	$3.5 \times 10^{-5} \times V + 3$ µV	
	2 V ≤ V < 20 V	$2.0 \times 10^{-5} \times V + 0.06$ mV	
	20 V ≤ V < 200 V	$2.5 \times 10^{-5} \times V + 1$ mV	
	200 V ≤ V < 1000 V	$2.5 \times 10^{-5} \times V + 5$ mV	
DC Current[3] – Meter	20 µA ≤ A < 200 µA	$1.5 \times 10^{-4} \times A + 35$ nA	EURAMET CG-15 Direct measurement by using Multi Product Calibrator A: Measured value
	0.2 mA ≤ A < 2 mA	$(1.0 \times 10^{-4} \times A + 60$ nA)	
	2 mA ≤ A < 20 mA	$(6.0 \times 10^{-5} \times A + 0.5$ µA)	
	20 mA ≤ A < 200 mA	$(7.0 \times 10^{-5} \times A + 15$ µA)	
	0.2 A ≤ A < 2 A	$(1.0 \times 10^{-4} \times A + 0.4$ mA)	
	2 A ≤ A < 30 A	$(2.0 \times 10^{-4} \times A + 23$ mA)	
DC Clamp meter[3]	30 A ≤ A < 60 A	$9.0 \times 10^{-3} \times A + 0.1$ 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	$9.0 \times 10^{-3} \times A + 0.2$ A	
	300 A ≤ A < 1500 A	$9.0 \times 10^{-3} \times A + 0.3$ A	

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY1,2 (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT (OPTIONAL)
AC Voltage – Meter[3] (50 Hz ≤ F ≤ 1 kHz)	20 mV ≤ V < 200 mV	(3.0 x 10^{-4} x V + 50 µV)	EURAMET CG-15 Direct measurement by using Multi Product Calibrator V: Measured value
	0.2 V ≤ V < 2 V	(2.5 x 10^{-4} x V + 0.3 mV)	
	2 V ≤ V < 20 V	(2.5 x 10^{-4} x V + 3.0 mV)	
	20 V ≤ V < 200 V	(5.0 x 10^{-4} x V + 50 mV)	
	200 V ≤ V < 1000 V	(6.0 x 10^{-4} x V + 90 mV)	
AC Current – Meter[3] (50 Hz ≤ F ≤ 1 kHz)	20 µA ≤ A < 200 µA	1.5 x 10^{-3} x A + 0.15 µA	EURAMET CG-15 Direct measurement by using Multi Product Calibrator A: Measured value
	0.2 mA ≤ A < 2 mA	(5.5 x 10^{-4} x A + 0.7 µA)	
	2 mA ≤ A < 20 mA	(3.5 x 10^{-4} x A + 7 µA)	
	20 mA ≤ A < 200 mA	(3.5 x 10^{-4} x A + 70 µA)	
	0.2 A ≤ A < 2 A	(4.0 x 10^{-4} x A + 0.7 mA)	
	2 A ≤ A < 30 A	(4.5 x 10^{-4} x A + 40 mA)	
AC Clamp meter[3] (50 Hz ≤ F ≤ 1 kHz)	30 A ≤ A < 60 A	9.0 x 10^{-3} x 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	9.0 x 10^{-3} x A + 0.2 A	
	30 A ≤ A < 1500 A	9.0 x 10^{-3} x A + 0.3 A	
DC Resistance – Meter[3]	0 Ω	0.006 Ω	EURAMET CG-15 Direct measurement by using Multi Product Calibrator) R: Measured value
	0.1 Ω	(2.0 x 10^{-7} x R + 6 mΩ)	
	1 Ω	(2.0 x 10^{-7} x R + 6 mΩ)	
	10 Ω	(2.0 x 10^{-7} x R + 7 mΩ)	
	100 Ω	(2.0 x 10^{-7} x R + 12 mΩ)	
	1 kΩ	(1.0 x 10^{-7} x R + 0.1 Ω)	
	10 kΩ	(1.0 x 10^{-7} x R + 1 Ω)	
	100 kΩ	(1.0 x 10^{-7} x R + 10 Ω)	
	1 MΩ	0.0002 MΩ	
	10 MΩ	0.005 MΩ	
	100 MΩ	0.8 MΩ	
	1000 MΩ	15 MΩ	
DC Resistance – Meter[3]	10 mΩ ≤ R ≤ 1000 mΩ	1.3 x 10^{-4} x R + 2.5 mΩ	EURAMET CG-15 Direct measurement by using Resistance Decade Box R: Measured value
	1 Ω ≤ R ≤ 1 kΩ	1.3 x 10^{-4} x R + 2.5 mΩ	
	1 kΩ ≤ R ≤ 1000 kΩ	1.3 x 10^{-4} x R	
	1000 kΩ ≤ R ≤ 100 MΩ	4.0 x 10^{-3} x R	

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY1,2 (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT (OPTIONAL)
Inductance – LCR Meter[3]	1 mH, 10 mH, 20 mH, 30 mH, 50 mH, 100 mH, 1 H, 10 H	$7.0 \times 10^{-3} \times L$	EURAMET CG-15 Direct measurement by using Multi Product Calibrator in Decade Mode L: Measured value
Inductance – LCR Meter[3]	100 µH ≤ L ≤ 10 mH	$(2.5 \times 10^{-2} \times L$	EURAMET CG-15 Direct measurement by using Inductance Decade Box L: Measured value
	10 mH ≤ L ≤ 100 mH	$2.0 \times 10^{-2} \times L$	
	100 mH ≤ L ≤ 1000 mH	$1.0 \times 10^{-2} \times L$	
	1 H ≤ L ≤ 10 H	$1.3 \times 10^{-1} \times L$	
Capacitance – LCR Meter[3]	1 nF ≤ C ≤ 100 nF	$2.0 \times 10^{-3} \times C + 2$ pF	EURAMET CG-15 Direct measurement by using Multi Product Calibrator in Decade Mode C: Measured value
	1 µF ≤ C ≤ 10 µF	$7.0 \times 10^{-3} \times C$	
Capacitance – LCR Meter[3]	60 pF ≤ C ≤ 1000 nF	$6.0 \times 10^{-3} \times C + 6$ pF	EURAMET CG-15 Direct measurement by using Capacitance Decade Box C: Measured value
AC Resistance – LCR Meter[3]	10 Ω ≤ R ≤ 100 kΩ	$6.0 \times 10^{-3} \times R$	EURAMET CG-15 Direct measurement by using Resistance Decade Box R: Measured value
Oscilloscope[3] - Vertical Deflection (Amplitude)	2 mV/Div ≤ V ≤ 10 mV/Div	$4.0 \times 10^{-3} \times V + 25$ µV	EURAMET CG-07 Direct measurement by using Multi Product Calibrator V: Measured value
	20 mV/Div ≤ V ≤ 100 mV/Div	$4.0 \times 10^{-3} \times V + 150$ µV	
	200 mV/Div ≤ V ≤ 1 V/Div	$4.0 \times 10^{-3} \times V + 2.0$ mV	
	2 V/Div ≤ V ≤10 V/Div	$4.0 \times 10^{-3} \times V + 15$ mV	
	20 V/Div ≤ V ≤ 50 V/Div	$1.0 \times 10^{-5} \times V + 0.7$ V	
Oscilloscope[3] - Horizontal Deflection (Time)	20 ns ≤ t ≤ 1 s	$5.0 \times 10^{-4} \times t$	EURAMET CG-07 Direct measurement by using Multi Product Calibrator t: Measured value

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY1,2 (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT (OPTIONAL)
Time and Frequency			
Frequency – Frequency Generator[4]	0.1 Hz ≤ f ≤ 100 Hz	$1.2 \times 10^{-5} \times f + 20$ µHz	Direct measurement by using Reference Frequency counter f: Measured value
	0.1 kHz < f ≤ 350 MHz	$3.0 \times 10^{-7} \times f$	

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.

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.

3Capability is suitable for the calibration of measuring devices in the stated ranges.

4Capability is suitable for the calibration of devices intended to generate the indicated quantity in the stated ranges.