



NATIONAL ACCREDITATION CENTER
ACCREDITATION CERTIFICATE

TO BE ACTIVE AS CALIBRATION LABORATORY,

Rezonans Biyomedikal Kalibrasyon Elektronik Teknolojileri San. ve Tic. Ltd.Şti.

Yazlık yeni mah. Osmanlı Cad. No:5 D:1 Gölcük / KOCAELİ

As a result of the assessment conducted by the National Accreditation Center (NAC), it is accredited in the annexes to the ISO / IEC 17025: 2017 General requirements for the competence of testing and calibration laboratories standard.

Accreditation Number : NAC-008-CL

Accreditation Date : 14.09.2023

This certificate is valid until 14.09.2024, if the above mentioned name and address continue to comply with the relevant standards, international and regional rules in addition to the written organization's ISO / IEC 17025: 2017 General requirements for the competence of testing and calibration laboratories standard.



This certificate is given by NAC. The certificate becomes invalid in case of suspension and cancellation of accreditation. For current accreditation information, visit www.nac-us.org or communicate with NAC on info@nac-us.org.

Gaynor
GENERAL SECRETARY

Attachment of Accreditation Certificate
SCOPE OF ACCREDITATION

 CALIBRATION LABORATORY ISO/IEC 17025:2017 NAC-008-CL	NAC ACCREDITATION NUMBER	NAC-008-CL		
	COMPANY NAME	Rezonans Biyomedikal Kalibrasyon Elektronik Teknolojileri San. ve Tic. Ltd.Şti.		
	ADRESS	Yazlık yeni mah. Osmanlı Cad. No:5 D:1 Gölcük / KOCAELİ		
	CONTACT NAME	Mehmet YALÇIN		
	TELEPHONE	+ 90 543 388 01 98		
	ACCREDITATION DATE	14.09.2023		
	ACCREDITATION STANDARD	ISO/IEC 17025:2017		
Accreditation Area		General requirements for the competence of testing and calibration laboratories		
Accreditation Standard		ISO / IEC 17025:2017		
Certification Sectors				
CALIBRATION AREA	RANGE & RESOLUTION	CALIBRATION & MEASUREMENT CAPABILITY ₁ (CMC) (±)	TECHNIQUE. REFERENCE STANDARD. EQUIPMENT	

Caliper	$L \leq 1000\text{mm}$	$(10,5+46 \cdot L)\mu\text{m}$	L: Measured Value VDI/VDE/DGQ 2618 Part 9.1
Depth Caliper	$L \leq 1000\text{mm}$	$(11,14+26 \cdot L)\mu\text{m}$	L: Measured Value VDI/VDE/DGQ 2618 Part 9.2
Height Gauge	$L \leq 1000\text{mm}$	$(9,6+33,1 \cdot L)\mu\text{m}$	L: Measured Value VDI/VDE/DGQ 2618 Part 9.3
Micrometer	$L \leq 1000\text{mm}$	$(2,6+41 \cdot L)\mu\text{m}$	L : Measured Value VDI/VDE/DGQ 2618 Part 10.1
Steel Ruler	$L \leq 2000\text{mm}$	$(280+6 \cdot L)\mu\text{m}$	L: Measured Value DIN865 - DIN866
Tapes (PiMeter-Mira)	$L \leq 50\text{ m}$	$(200+28 \cdot L)\mu\text{m}$	L: Measured Value TS 9505



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Thickness Gauge	0,01mm ≤ L ≤ 2mm	1,1µm	L: Measured Value
Feeler gauge	0,1mm ≤ L ≤ 25mm	3µm	DIN2275
Globe Feeler Gauge			
Hand type measuring clock	0 mm ≤ L ≤ 100mm	(1,5+35·L)µm	L: Measured Value, m VDI/VDE/DGQ 2618 Part 12.1
Dial Gauge	L ≤ 25mm	(3+11·L)µm	L : Measured Value VDI/VDE/DGQ2618 Part 11.1
Coating Thickness Standard Foil	≤ 5mm	2µm	DIN EN ISO 2178 DIN EN ISO 2360
Coating Thickness Measuring Device	5µm < L ≤ 5000µm	2µm 1µm	DIN EN ISO 2178 DIN EN ISO 2360
Ultrasonic thickness gauge	L ≤ 200mm	15µm	with gauge block



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Ultrasonic Thickness Block	0,1m<L≤25m	3µm	DIN EN ISO 2400 Direct measurement
Laser Distance Meter	0,1m<L≤50m	5mm	Comparison method with reference laser distance meter
Sieve	5mm<L≤125mm	30µm	ISO3310-1 ISO3310-2 EN933-3
SCALES Non-Automatic Scales	0,001 g ≤ m ≤ 500 g 1g≤m ≤40kg 10kg≤ m ≤1000kg 1000kg≤ m ≤5000kg	2·10 ⁻⁶ 1·10 ⁻⁵ 1,5·10 ⁻⁴ 1,6·10 ⁻³	m: Measured Value EURAMETcg-18
Temperature Muffle Furnace in Controlled Volumes (Temperature Distribution)	400°C ≤ T ≤1200°C	3,7°C	On,site calibration T:Temperature
Controlled Volumes (Temperature)	-30°C ≤ T ≤150°C 150°C ≤ T ≤250°C	0,45°C 1,2°C	Eurametcg-20 EN 60068-3-5



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Distribution) Oven, Incubator, Oven, Cooler, Air Conditioning Cabinet, Cold Room, Bathroom			EN 60068-3-11 DAKKS-DKD-R5-7 On-site calibration T:Temperature
Resistance Thermometers Industrial Platinum Resistance Thermometer (PRT)	-80 °C ≤ T ≤ 300°C 300 < T ≤ 420°C	0,25°C 0,9°C	Comparison method with reference PRT 100Ω resistance thermometer T:Temperature
Thermocouple	-80°C ≤ T < 300°C 300°C ≤ T < 420°C 420°C < T ≤ 1200°C	0,3°C 1,0°C 3,5°C	Comparison method with reference PRT 100Ω resistance thermometer and Type S thermocouple Laboratory and on-site calibration for all types T:Temperature
Temperature Meters	-80°C ≤ T < 50°C	0,3°C	Comparison method



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with Display (With Thermistor, Resistor, Thermocouple Sensor)	50°C ≤ T ≤ 420°C 420°C < T ≤ 1200°C	0,8°C 3,5°C	with reference PRT100Ω resistance thermometer and Stipi thermocouple Calibration in the laboratory and on-site T:Temperature
Temperature Indicators and Calibrators	100°C ≤ T ≤ 1820°C	0,6°C	Sensorless calibration with electrical simulation method using electrical standards
Temperature Indicator	-270°C ≤ T ≤ 1000°C	0,4°C	Euramet Cg-11 Compensation "ACTIVE" (On)
	-210°C ≤ T ≤ 1200°C	0,4°C	T:Temperature
	-270°C ≤ T ≤ 1372°C	0,4°C	
	-270°C ≤ T ≤ 1300°C	0,4°C	
	-50°C ≤ T ≤ 1760°C	0,6°C	
	-50°C ≤ T ≤ 1760°C	0,6°C	



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	-270°C ≤ T ≤ 400°C	0,4°C	
	-200°C ≤ T ≤ 800°C	0,3°C	
Ambient Temperature Meter Datalogger with Indicator - wall/desktop	5°C ≤ T ≤ 30°C	0,6°C	T: By Temperature Comparison Method
RELATIVE HUMIDITY With Digital and Analog Display Relative Humidity Meters and Loggers, Hygrometer	40%RH ≤ RH ≤ 80%RH	2,5%rh	RH: relative humidity T: temperature Comparison Method in Humidity Cabinet
RADIATION TEMPERATURE Industrial Radiation Thermometers	50°C ≤ T ≤ 100°C 100°C < T ≤ 500°C	2,0 °C 2,5°C	Comparison Method T: Temperature



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PRESSURE (RELATIVE PRESSURE) Analog and Digital Manometers Pressure Converters	$-0,85\text{bar} \leq p \leq 0,1\text{bar}$	0,0023bar	<i>p: Pressure, bar</i> <i>Eurametcg-17</i>
	$0,1\text{bar} \leq p < 20\text{bar}$	0,0022bar	
	$20\text{bar} \leq p < 100\text{bar}$	0,02 bar	
	$20\text{bar} \leq p \leq 700\text{bar}$	0,4bar	
TORQUE Torque Hand Tools (ISO6789-1 devices covered)	$20\text{N}\cdot\text{m} \leq M \leq 1000\text{N}\cdot\text{m}$	%1,0	ISO 6789-2 Calibration procedure prepared according to standards
ELECTRIC DC Voltage, DC Voltage Sources, Calibrator: DC Voltage DC Voltage Meters	$1\text{mV} \leq U < 100\text{mV}$ $0,1\text{V} \leq U < 1\text{V}$ $1\text{V} \leq U < 10\text{V}$ $10\text{V} \leq U < 100\text{V}$ $100\text{V} \leq U \leq 1000\text{V}$	$6 \cdot 10^{-5} \cdot U + 5\mu\text{V}$ $4,4 \cdot 10^{-5} \cdot U + 13\mu\text{V}$ $3,8 \cdot 10^{-5} \cdot U + 0,11\text{mV}$ $5,0 \cdot 10^{-5} \cdot U + 1,2\text{mV}$ $5,1 \cdot 10^{-5} \cdot U + 16\text{mV}$	With Fluke 8846A DMM by direct method.



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Multimeter: DC Voltage, DC Voltmeter			
DC Voltage	1mV ≤ U < 20mV	4,3 · 10 ⁻⁵ · U + 6,7 μV	U: Applied Voltage, V with Fluke5100B Multi-function calibrator
DC Voltage Meters	20mV ≤ U < 200mV	4,6 · 10 ⁻⁵ · U + 8,1 μV	
	0,2V ≤ U < 2V	4,5 · 10 ⁻⁵ · U + 33 μV	
	2V ≤ U < 20V	4,5 · 10 ⁻⁵ · U + 0,29mV	
Multimeter: DC Voltage, DC Voltmeter	20V ≤ U < 200V	4,5 · 10 ⁻⁵ · U + 2,8mV	
	200V ≤ U ≤ 1000V	2,9 · 10 ⁻⁵ · U + 50mV	
AC Voltage	1mV ≤ U < 100mV	1,4 · 10 ⁻³ · U + 97 μV	U : Measured Voltage, V Direct measurement with Fluke 8846A DMM
AC Voltage Sources	0,1V ≤ U < 1V	6,7 · 10 ⁻⁴ · U + 0,38mV	
	1V ≤ U < 10V	3,7 · 10 ⁻⁴ · U + 12mV	
	10V ≤ U < 100V	3,7 · 10 ⁻⁴ · U + 0,12V	
Multimeter: AC Voltage, AC Voltmeter	100V ≤ U < 1000V	5,2 · 10 ⁻⁴ · U + 0,51V	
	10mV ≤ U < 100mV	6,4 · 10 ⁻³ · U + 0,16mV	
	0,1V ≤ U < 1V	6,6 · 10 ⁻³ · U + 1,4mV	
	1V ≤ U < 10V	6,6 · 10 ⁻³ · U + 14mV	
	10V ≤ U < 100V	3,3 · 10 ⁻³ · U + 0,8V	
	100V ≤ U < 1000V	6,7 · 10 ⁻³ · U + 0,96V	



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AC Voltage	1mV ≤ U < 20mV	3,7·10 ⁻⁴ ·U+65μV	U: Applied Voltage,V
AC Voltage Meters	20mV ≤ U < 200mV	3,9·10 ⁻⁴ ·U+76μV	
	0,2V ≤ U < 2V	3,8·10 ⁻⁴ ·U+0,23mV	
	2V ≤ U < 20V	1,2·10 ⁻⁴ ·U+18mV	with Fluke 5100B
Multimeter: AC Voltage, AC Voltmeter	20V ≤ U < 200V	2,9·10 ⁻⁴ ·U+45mV	Multi-function calibrator
	200V ≤ U ≤ 1000V	2,3·10 ⁻⁴ ·U+0,42V	
DC HIGH VOLTAGE	1kV ≤ U ≤ 40 kV	%0,6	High Voltage Divider and High Voltage Probe
DC High Voltage Sources			
AC HIGH VOLTAGE	1kV ≤ U ≤ 28 kV	%0,9	High Voltage Divider and High Voltage Probe
AC High Voltage Sources			
DC Current	10μA ≤ I < 100μA	5,5·10 ⁻⁴ ·I+34nA	I: Applied Current, A
DC Current Sources	0,1mA ≤ I < 1mA	5,3·10 ⁻⁴ ·I+0,12μA	
DC Current Source, Calibrator: DC Current	1mA ≤ I < 10mA	5,5·10 ⁻⁴ ·I+2,8μA	
	10mA ≤ I < 100mA	5,3·10 ⁻⁴ ·I+12μA	Direct measurement with
	100mA ≤ I < 400mA	4,5·10 ⁻⁴ ·I+92μA	Fluke 8846ADMM
	0,1A ≤ I < 1A	5,5·10 ⁻⁴ ·I+0,28mA	
	0,3A ≤ I < 3A	1,1·10 ⁻³ ·I+1,0mA	
	3A ≤ I < 10A	1,6·10 ⁻³ ·I+2,2mA	Direct



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	10A ≤ I ≤ 100A 100A < I ≤ 1000A	2,4·10 ⁻² ·I ± 0,6A 2,4·10 ⁻² ·I ± 0,6A	measurement with Fluke 376 Clamp Meter
DC Current DC Current Meters Multimeter: DC Current, Clampmeter,	10µA ≤ I < 100µA 0,2mA ≤ I < 2mA 2mA ≤ I < 20mA 20mA ≤ I < 200mA 0,2A ≤ I < 2A 10A ≤ I < 100A 100A ≤ I ≤ 1000A	3,4·10 ⁻⁴ ·I ± 31nA 1,6·10 ⁻⁴ ·I ± 92nA 1,4·10 ⁻⁴ ·I ± 0,70µA 1,6·10 ⁻⁴ ·I ± 6,8µA 7,5·10 ⁻⁵ ·I ± 0,46mA 5,8·10 ⁻³ ·I ± 0,59A 4,1·10 ⁻² ·I ± 1,9A	I: Applied Current, A Fluke 5100B with Multifunctional calibrator Fluke 5100B with calibrator and 50 turns coil Duma 35AAC/DC Current Source and 50 turns Coil
AC Current AC Current Sources AC Current Source, Calibrator: AC Current	1mA ≤ I < 10mA 10mA ≤ I < 100mA 100mA ≤ I < 400mA 0,4A ≤ I < 1A 1A ≤ I < A 3A ≤ I < 10A 10A ≤ I ≤ 100A 100A < I ≤ 1000A	1,1·10 ⁻³ ·I ± 21µA 7,2·10 ⁻⁴ ·I ± 0,14mA 2,3·10 ⁻³ ·I ± 3,3mA 1,9·10 ⁻⁴ ·I ± 7,8mA 1,4·10 ⁻³ ·I ± 4mA 1,5·10 ⁻³ ·I ± 12mA 2,4·10 ⁻² ·I ± 0,6A 2,4·10 ⁻² ·I ± 0,6A	I: Applied Current, with AFluke 8846ADMM direct measurement Direct measurement with Fluke 376 Clamp Meter



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ACAkim	0,2mA ≤ I < 2mA	3,4 · 10 ⁻⁴ · I + 0,10µA	I: Applied Current, A Fluke 5100B with multifunctional calibrator Fluke 5100B calibrator and 50 turbobcoil With Dhuma35A AC/DC current source and 50 turbobins
AC Current Meters	2mA ≤ I < 20mA	5,2 · 10 ⁻⁴ · I + 2,7µA	
Multimeter: AC	20mA ≤ I < 200mA	5,1 · 10 ⁻⁴ · I + 28µA	
Current Clampmeter	0,2A ≤ I < 2A	2,1 · 10 ⁻⁴ · I + 1,9mA	
	10A ≤ I < 100A	6,5 · 10 ⁻³ · I + 1A	
	100A ≤ I ≤ 1000A	4,7 · 10 ⁻² · I + 2,3A	
DC Resistance Standards and Sources:	0Ω ≤ R < 1Ω	2,7 · 10 ⁻⁵ · R + 7,3µΩ	with Fluke 8846A DMM direct measurement
Calibrator:	1Ω ≤ R < 10Ω	1,9 · 10 ⁻⁵ · R + 35µΩ	
Resistor, Resistor Box, Multimeter Ohmmeter	10Ω ≤ R < 100Ω	1,7 · 10 ⁻⁵ · R + 0,1mΩ	
	0,1kΩ ≤ R < 1kΩ	1,5 · 10 ⁻⁵ · R + 0,9mΩ	
	1kΩ ≤ R < 10kΩ	1,7 · 10 ⁻⁵ · R + 9,3mΩ	
	10kΩ ≤ R < 100kΩ	1,9 · 10 ⁻⁵ · R + 0,09Ω	
	0,1MΩ ≤ R < 1MΩ	2,1 · 10 ⁻⁵ · R + 2,3Ω	
	1MΩ ≤ R < 10MΩ		
	10MΩ ≤ R < 100MΩ		



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	COMPANY NAME	Rezonans Biyomedikal Kalibrasyon Elektronik Teknolojileri San. ve Tic. Ltd.Şti.		
	ADRESS	Yazlık yeni mah. Osmanlı Cad. No:5 D:1 Gölçük / KOCAELİ		
	CONTACT NAME	Mehmet YALÇIN		
	TELEPHONE	+ 90 543 388 01 98		
	ACCREDITATION DATE	14.09.2023		
	ACCREDITATION STANDARD	ISO/IEC 17025:2017		
Accreditation Area		General requirements for the competence of testing and calibration laboratories		
Accreditation Standard		ISO / IEC 17025:2017		
Certification Sectors				
CALIBRATION AREA	RANGE & RESOLUTION	CALIBRATION & MEASUREMENT CAPABILITY¹ (CMC) (±)	TECHNIQUE. REFERENCE STANDARD. EQUIPMENT	

	100 MΩ ≤ R < 1000 MΩ		
DC RESISTANCE DC Resistance Meters Multimeter, Resistance, Ohmeter, Insulation Testing Devices	$1\Omega \leq R \leq 111,11\text{ k}\Omega$ $100\text{k}\Omega < R \leq 100\text{ M}\Omega$ $100\text{ M}\Omega < R \leq 1\text{ G}\Omega$ $1\text{ G}\Omega < R \leq 25\text{ G}\Omega$	0,2 mΩ/Ω 2,3Ω/kΩ 2,52Ω/kΩ 7MΩ/GΩ	R:Measured Value
CAPACITY Capacitor Capacitance Standards LCRMeter multimeter	100pF ≤ C < 1μF	5,1. 10 ⁻³ . C	With Reference Capacity Box direct measurement
Frequency Meters Optical (Non-	60rpm ≤ ω ≤ 1000rpm 60 rpm ≤ ω ≤ 100000rpm	1,2·10 ⁻³ ω+0,2 rpm 1,6·10 ⁻³ ω+0,1 rpm	ω:MeasuredSpeed(rpm) r : resolution Frequency Source,



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Attachment of Accreditation Certificate
SCOPE OF ACCREDITATION

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Contact)Tachometer			using optical converter To compare
Frequency Meters	$1\text{Hz} \leq f < 10\text{kHz}$	$1,5 \cdot 10^{-5} \cdot f$	f: Measured Frequency (Hz) Beamex MC5
Frequency Counter, Analyzer	$10\text{ kHz} \leq f < 1\text{GHz}$	$1,2 \cdot 10^{-5} \cdot f$	MARCONI 2022
Frequency Sources Cycle Generators (Centrifuges, Mixers, Rotary Machines, Stroboscopes.)	$60\text{ rpm} \leq \omega \leq 99999\text{rpm}$	$6,0 \cdot 10^{-4} \omega + 0,2\text{ rpm}$	ω : Measured Speed (rpm) r : resolution reference comparative using tachometer measurement
Frequency Sources Signal Generator Function Generator	$10\text{Hz} \leq f < 225\text{MHz}$ $225\text{MHz} \leq f < 580\text{MHz}$ $620\text{MHz} \leq f \leq 18\text{GHz}$	$5,3 \cdot 10^{-4} \cdot f$ $1,8 \cdot 10^{-6} \cdot f$ $1,8 \cdot 10^{-6} \cdot f$	f: Measured Frequency (Hz) HP 5342A



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