



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- TÜRKİYE

As a result of the assessment conducted by the NAC National Accreditation Center LLC, this laboratory is accredited in accordance with the ISO/IEC 17025:2017 standard, which specifies the general requirements for the competence of testing and calibration laboratories, as detailed in the annexes.

Accreditation Number : NAC-008-CL

Accreditation Date : 14.09.2023

This certificate is valid until 14.09.2024, provided that the above-mentioned name 14.09.2023 and address continue to comply with the relevant standards, as well as international and regional regulations, in addition to the organization's documented compliance with ISO/IEC 17025:2017 General Requirements for the competence of testing and calibration laboratories.




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
PRESIDENT

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SCOPE OF ACCREDITATION


 <p>CALIBRATION LABORATORY ISO/IEC 17025:2017 NAC-008-CL</p>	NAC ACCREDITATION NUMBER	NAC-008-CL		
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	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 CAPABILITY¹ (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 Temperature Indicator	100°C ≤ T ≤ 1820°C	0,6°C	Sensorless calibration with electrical simulation method using electrical standards Euramet Cg-11 Compensation "ACTIVE" (On) T:Temperature	
	-270°C ≤ T ≤ 1000°C	0,4°C		
	-210°C ≤ T ≤ 1200°C	0,4°C		
	-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</i> : Pressure, bar Eurametcg-17
	$0,1\text{bar} \leq p < 20\text{bar}$	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	U : Measured Voltage, V Direct measurement with Fluke 8846A DMM
	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	
	100V ≤ U < 1000V	5,2 · 10 ⁻⁴ · U + 0,51V	
Multimeter: AC Voltage, AC Voltmeter	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 DC High Voltage Sources	1kV ≤ U ≤ 40 kV	%0,6	High Voltage Divider and High Voltage Probe
AC HIGH VOLTAGE AC High Voltage Sources	1kV ≤ U ≤ 28 kV	%0,9	High Voltage Divider and High Voltage Probe
DC Current DC Current Sources DC Current Source, Calibrator: DC Current	10µA ≤ I < 100µA	5,5 · 10 ⁻⁴ · I + 34nA	I: Applied Current, A
	0,1mA ≤ I < 1mA	5,3 · 10 ⁻⁴ · I + 0,12µA	
	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 Dhuma 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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ACAkm	0,2mA ≤ I < 2mA	3,4 · 10 ⁻⁴ · I + 0,10µA	I: Applied Current, A Fluke 5100B with multifunctional calibrator
AC Current Meters	2mA ≤ I < 20mA	5,2 · 10 ⁻⁴ · I + 2,7µA	
Multimeter: AC Current Clampmeter	20mA ≤ I < 200mA	5,1 · 10 ⁻⁴ · I + 28µA	Fluke 5100B calibrator and 50 turbocoil With Dhuma35A AC/DC current source and 50 turbobins
	0,2A ≤ I < 2A	2,1 · 10 ⁻⁴ · I + 1,9mA	
	10A ≤ I < 100A	6,5 · 10 ⁻³ · I + 1A	
DC Resistance Standards and Sources: Calibrator: Resistor, Resistor Box, Multimeter Ohmmeter	100A ≤ I ≤ 1000A	4,7 · 10 ⁻² · I + 2,3A	
	0Ω ≤ R < 1Ω	2,7 · 10 ⁻⁵ · R + 7,3µΩ	with Fluke 8846A DMM direct measurement
	1Ω ≤ R < 10 Ω	1,9 · 10 ⁻⁵ · R + 35µΩ	
	10Ω ≤ R < 100 Ω	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 < 1 MΩ	2,1 · 10 ⁻⁵ · R + 2,3Ω		
1 MΩ ≤ R < 10 MΩ			
10 MΩ ≤ R < 100 MΩ			



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Attachment of Accreditation Certificate
SCOPE OF ACCREDITATION

 <p>CALIBRATION LABORATORY ISO/IEC 17025:2017 NAC-008-CL</p>	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 CAPABILITY¹ (CMC) (±)	TECHNIQUE. REFERENCE STANDARD. EQUIPMENT	

	100 MΩ ≤ R < 1000 MΩ		
DC RESISTANCE DC Resistance Meters Multimeter, Resistance, Ohmeter, Insulation Testing Devices	1Ω ≤ R ≤ 111,11 kΩ 100kΩ < R ≤ 100 MΩ 100 MΩ < R ≤ 1 GΩ 1 GΩ < R ≤ 25 GΩ	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: Measured Speed (rpm) r : resolution Frequency Source,



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



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