



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 : 14.09.2024

This certificate is valid until 14.09.2025, provided that the above-mentioned name 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

Attachment of Accreditation Certificate

SCOPE OF ACCREDITATION


 <p>NAC 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	14.09.2024		
	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 (CMC) (±)	TECHNIQUE. REFERENCE STANDARD. EQUIPMENT	

Caliper	0 mm < L ≤ 100 mm / r : 0,01 mm r : 0,02 mm r : 0,05 mm r : 0,1 mm	(15,9 + 7,2·L) μm (20,4 + 5,5·L) μm (50,2 + 2,5·L) μm (100,1 + 1,1·L) μm	L: measured value - m VDI/VDE/DGQ 2618 Part 9.1 and DIN 862
Caliper	125 mm < L ≤ 1000 mm r : 0,01 mm r : 0,02 mm r : 0,05 mm r : 0,1 mm	(15,9 + 29,5·L) μm (20,5 + 37,7·L) μm (50,2 + 23,8·L) μm (100,1 + 13,8·L) μm	L: measured value - m VDI/VDE/DGQ 2618 Part 9.1 and DIN 862
Depth Caliper	0 mm < L ≤ 100 mm r : 0,01 mm r : 0,02 mm r : 0,05 mm r : 0,1 mm	(15,9 + 7,2·L) μm (20,4 + 5,5·L) μm (50,2 + 2,5·L) μm (100,1 + 1,1·L) μm	L: measured value - m VDI/VDE/DGQ 2618 Part 9.2 and DIN 862
Depth Caliper	125 mm < L ≤ 1000 mm r : 0,01 mm r : 0,02 mm r : 0,05 mm r : 0,1 mm	(15,9 + 29,5·L) μm (20,5 + 37,7·L) μm (50,2 + 23,8·L) μm (100,1 + 13,8·L) μm	L: measured value - m VDI/VDE/DGQ 2618 Part 9.2 and DIN 862



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Height Gauge	0 mm < L ≤ 100 mm r : 0,01 mm r : 0,02 mm r : 0,05 mm r : 0,1 mm	(15,9 + 7,2·L) μm (20,4 + 5,5·L) μm (50,2 + 2,5·L) μm (100,1 + 1,1·L) μm	L: measured value - m VDI/VDE/DGQ 2618 Part 9.3
Height Gauge	125 mm < L ≤ 1000 mm r : 0,01 mm r : 0,02 mm r : 0,05 mm r : 0,1 mm	(15,9 + 29,5·L) μm (20,5 + 37,7·L) μm (50,2 + 23,8·L) μm (100,1 + 13,8·L) μm	L: measured value - m VDI/VDE/DGQ 2618 Part 9.3
External diameter micrometers	0 mm < L ≤ 100 mm r : 0,001 mm r : 0,01 mm	(2,1 + 31,9·L) μm (10,5 + 10,8·L) μm	L: measured value - m VDI/VDE/DGQ 2618 Bl.10,1 and 10,3
External diameter micrometers	125 mm < L ≤ 1000 mm r : 0,001 mm r : 0,01 mm	(2,1 + 46,9·L) μm (10,5 + 38,8·L) μm	L: measured value - m VDI/VDE/DGQ 2618 Bl.10,1 and 10,3
Steel Ruler	0 mm < L ≤ 2000 mm	(282 + 76·L) μm	L: measured value - m DIN 865 and DIN 866



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Tape Measure (Land, Workshop, pi), (Geodetic) Wire	0 mm < L ≤ 50000 mm	L =[m] (363 + 124,8·L) μm	L: measured value - m TS 9505
Thickness Gauge (Feeler gauge etc.)	0,01 mm ≤ L ≤ 2 mm	L =[m] (2,5 + 3,7·L) μm	L: measured value - m DIN 2275
Dial Gauge	0 mm ≤ L ≤ 100mm 0,001mm 0,01mm	(2 + 31,8·L)μm (10,2 + 10,7)μm	L: measured value- m VDI/VDE/DGQ 2618 Part 12.1
Dial Gauge	L ≤25mm 0,01mm 0,002mm	8,51μm 2,4μm	L : measured value - m VDI/VDE/DGQ 2618 Part 11.1 and DIN
Coating Thickness Standard Foil	≤5mm	2μm	DIN EN ISO 2178 DINENISO2360
Coating Thickness Measuring Device	5μm<L≤100μm 100μm<L≤5000μm 0,0001mm 0,001mm	0,66μm 2,7μm	DIN EN ISO 2178 DIN EN ISO 2360



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Ultrasonic Thickness Gauge	1 mm ≤ L ≤ 200 mm	L: m (1,3 + 29,5·L) μm	L: measured value-m With Parallel Block Gauge.
Ultrasonic Thickness Gauge	0,1m < L ≤ 25m	2,5 μm	DIN EN ISO 2400
Laser meter	0,1m < L ≤ 50m	2,8 mm	Comparison methods
Sieve	5mm<L≤125mm Determining eye opening and wire diameter	30μm	ISO3310-1 ISO3310-2 EN933-3
Scale	0,001 g ≤ m ≤ 500 g 1g ≤ m ≤40kg - 10kg ≤ m ≤1000kg 1000kg≤ m ≤5000kg	1,9·10 ⁻⁶ 1·10 ⁻⁵ 9,5·10 ⁻⁵ 1,1·10 ⁻³	, EURAMET cg-18' E ₂ MASS F ₁ mass M ₁ mass m: mass With Substitute Masses



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Climatic Chambers (Temperature Distribution) Muffle Furnace	300°C ≤ T ≤ 600°C 600°C ≤ T ≤ 1200°C Axial temperature distribution	3,0 °C 3,4 °C	Euramet cg-20, DKD-R 5-7
Climatic Chambers (Temperature Distribution) Oven Incubator Cold Room (deep freezer etc.) Air Conditioning Cabinet Liquid Bath Oven	-80°C ≤ T ≤ 0°C 0°C ≤ T ≤ 95°C 95°C ≤ T ≤ 250°C Axial temperature distribution	0,46°C 0,63°C 1,02°C	Euramet Cg-20, DKD-R 5-7
Resistance Thermometer (PRT)	-80 °C ≤ T ≤ 50°C 50 < T ≤ 400°C	0,12°C 0,16°C	Liquid Bath Dry block calibrator Comparison method



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Thermocouples	-80°C ≤ T < 50°C	0,23°C	Liquid Bath
	50°C ≤ T < 400°C	0,16°C	Dry block calibrator TYPE K
	400°C < T ≤ 1200°C	3,2°C	Comparison method
Temperature Meters with Display (with resistance sensor thermometer)	-80°C ≤ T < 50°C	0,2°C	Liquid Bath Dry block calibrator
	50°C ≤ T ≤ 400°C	0,44°C	Comparison method
Temperature Meters with Display (with thermocouple sensor thermometer)	-80°C ≤ T < 50°C	0,24°C	Liquid Bath
	50°C ≤ T ≤ 400°C	0,73°C	Dry block calibrator
	400°C ≤ T ≤ 1200°C	3,3°C	Comparison method



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Temperature Indicators and Calibrators Temperature Indicator	100°C≤T≤1820°C B	0,6°C	EURAMET Cg-11
	-270°C≤T≤1000°C E	0,4°C	
	-210°C≤T≤1200°C J	0,4°C	
	-270°C≤T≤1372°C K	0,4°C	
	-270°C≤T≤1300°C N	0,4°C	
	-50°C≤T≤1760°C R	0,6°C	
	-50°C≤T≤1760°C S	0,6°C	
	-270°C≤T≤400°C T	0,4°C	
	-200°C≤T≤800°C Pt385100Ω	0,26°C	
Hygrometers Analog and Digital Temperature Meters	5°C≤ T≤ 35°C	0,5°C	Comparative Calibration



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Hygrometers Hygrometer Relative Humidity Meter (Capacitive, resistive, thermograph, mechanical, wet/dry bulb) Analog and Digital Humidity Meters	30%rh≤RH ≤80%rh	2,51%rh	Comparative Calibration	
Industrial Radiation Thermometers Thermal Camera IR Thermometer	50°C≤ T ≤200°C 200°C<T ≤500°C	1,9 °C 2,7°C	Comparative calibration with reference black body ε=0.95 (Emissivity)	
Relative Pressure Analog Manometer Digital Manometer Differential Pressure Meter	-0,85bar ≤ p ≤ 0,1bar pneumatic 0,1bar ≤ p <20bar pneumatic 20 bar ≤ p <100bar Hydraulic 100 bar ≤ p ≤ 700bar Hydraulic	0,005bar 0,007bar 0,032 bar 0,35bar	EURAMET/cg17 DKD R 6- 1	



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TORK TorqueTools (Devices covered by ISO6789-1)	10N·m ≤ M ≤ 1000N·m Clockwise and Counterclockwise	%1,0	EN ISO6789 -1 EN ISO6789 -2	
Frequency Meters Optical (Contactless) Tachometer	60rpm ≤ ω ≤ 1000rpm 60 rpm ≤ ω ≤ 100000rpm r :0,01rpm	1,2·10 ⁻³ ω+0,2 rpm 1,6·10 ⁻³ ω+0,1 rpm	ω: Measured Speed (rpm) r : resolution	
Frequency Sources Volume Generators (Centrifuges, Mixers, Rotary Machines, Stroboscopes, etc.)	60 rpm ≤ ω ≤ 99999rpm r :0,1rpm	6,0·10 ⁻⁴ ω+0,2 rpm	ω: Measured Speed (rpm) r : resolution	



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ELECTRICAL DC Voltage Sources DC Voltage Source, Calibrator: DC Voltage	0mV ≤ U < 100mV 0,1V ≤ U < 1V 1V ≤ U < 10V 10V ≤ U < 100V 100V ≤ U ≤ 1000V	1,1 · 10 ⁻⁴ · U + 7,0 μV 1,2 · 10 ⁻⁴ · U + 15 μV 1,5 · 10 ⁻⁴ · U + 0,25 mV 1,5 · 10 ⁻⁴ · U + 2,6 mV 1,6 · 10 ⁻⁴ · U + 0,37V	Fluke 8846ADMM
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DC Voltage DC Voltage Meters Multimeter: DC Voltage Multifunction Transfer Standard: DC Voltage Nano voltmeter Micro voltmeter DC Voltmeter	0mV ≤ U < 200mV 0,2V ≤ U < 2V 2V ≤ U < 10V 10V ≤ U < 30V 30V ≤ U < 100V 100V ≤ U < 300V 300V ≤ U < 600V 300V ≤ U ≤ 1000V	3,5 · 10 ⁻⁴ · U + 46 mV 3,5 · 10 ⁻⁴ · U + 0,47 mV 3,5 · 10 ⁻⁴ · U + 2,3 mV 3,5 · 10 ⁻⁴ · U + 7 mV 3,5 · 10 ⁻⁴ · U + 23 mV 3,5 · 10 ⁻⁴ · U + 70 mV 3,5 · 10 ⁻⁴ · U + 0,14 V 3,5 · 10 ⁻⁴ · U + 0,23 V	With Tunkia Calibrator
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AC Voltage AC Voltage Sources Multimeter: AC Voltage, AC Voltmeter	10mV≤ U<100mV 0,1V≤ U<1V 1V≤U<10V 10V≤ U<100V 100V≤ U<1000V 50Hz≤ f≤20 kHz	7,0.10 ⁻⁴ .U +47 μV 2,4.10 ⁻³ .U +0,45 mV 1,2.10 ⁻³ .U +5,7 mV 8,5.10 ⁻⁴ .U +56 mV 7,6.10 ⁻⁴ .U +0,43 V	U : Measured Voltage, V Fluke 8846A
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AC Voltage AC Voltage Meters Multimeter: AC Voltage, AC Voltmeter	20mV≤ U<200mV 0,2V≤ U<2V 2V≤U<10V 10V≤U<30V 30V≤ U<100V 100V≤ U<300V 300V≤ U<600V 600V≤ U≤1000V 45 Hz ≤ f ≤ 1 kHz	6,9.10 ⁻⁴ .U +67μV 7,0.10 ⁻⁴ .U +0,42 mV 3,5.10 ⁻⁴ .U +2,6mV 7,4 .10 ⁻⁴ .U +6 mV 1,4.10 ⁻³ .U +18 mV 7,4 .10 ⁻⁴ .U +62 mV 5,6 .10 ⁻⁴ .U +0,13V (4,6E-04) x +0,23V	With Tunkia Calibrator U: Applied Value
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DC HIGH VOLTAGE DC High Voltage Sources	1kV ≤U≤40 kV	%0,6	High Voltage Divider and High Voltage Probe
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AC HIGH VOLTAGE AC High Voltage Sources	1kV ≤U≤28 kV 50Hz	%0,9	High Voltage Divider and High Voltage Probe
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DC Current	0µA ≤ I < 100µA	5,6.10 ⁻⁴ . I +40 nA	I: Applied Current, A
	0,1mA ≤ I < 1mA	0,2 µA	Fluke 8846A
DC Current Sources	1mA ≤ I < 10mA	5,9.10 ⁻⁴ . I +2,3 µA	Fluke 376
	10mA ≤ I < 100mA	5,9.10 ⁻⁴ . I +5,8 µA	
DC Current Source, Calibrator: DC Current	100mA ≤ I < 400mA	5,8.10 ⁻⁴ . I +23µA	
	0,1A ≤ I < 1A	6,5.10 ⁻⁴ . I +0,23 mA	
	0,3A ≤ I < 3A	1,2.10 ⁻³ . I +0,7 mA	
	3A ≤ I < 10A	1,8.10 ⁻³ . I +0,9 mA	
	30A ≤ I ≤ 1000A	1,2.10 ⁻² . I +3,5 mA	
DC Current	0µA ≤ I < 20µA	3,5.10 ⁻⁴ . I +4,7 nA	Tunkia Calibrator and 25/50 Round Coil
DC Current Meters	20µA ≤ I < 200µA	3,5.10 ⁻⁴ . I +47 nA	
	0,2mA ≤ I < 2mA	3,5.10 ⁻⁴ . I +,47 mA	
Multimeter: DC	2mA ≤ I < 20mA	3,5.10 ⁻⁴ . I +4,6 mA	I: Applied Value, A
Current, Clamp meter	20mA ≤ I < 200mA	4,6.10 ⁻⁴ . I +44 mA	
Clamp meter	0,2A ≤ I < 2A	8,8.10 ⁻⁴ . I +0,36 mA	
	2A ≤ I < 10A	6,8.10 ⁻⁴ . I +2,3 mA	
	10 A ≤ I < 30A	1,1.10 ⁻³ . I +5,2 Ma	
		2,4.10 ⁻³ . I +0,05 A	



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SCOPE OF ACCREDITATION

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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	14.09.2024
	ACCREDITATION STANDARD	ISO/IEC 17025:2017

Accreditation Area	General requirements for the competence of testing and calibration laboratories
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Accreditation Standard	ISO/IEC 17025:2017
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Certification Sectors

CALIBRATION AREA	RANGE & RESOLUTION	CALIBRATION & MEASUREMENT CAPABILITY (CMC) (±)	TECHNIQUE. REFERENCE STANDARD. EQUIPMENT
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	0,5A ≤ I < 5A 5A ≤ I < 50A 50A ≤ I < 750A 1A ≤ I < 10A 10A ≤ I < 100A 100A ≤ I < 1500A	3,9.10 ⁻³ . I +0,11A 3,9.10 ⁻³ . I +0,39A 3,7.10 ⁻³ . I +85 mA 3,9.10 ⁻³ . I +0,11A 3,9.10 ⁻³ . I +0,39A333333z	
AC Current AC Current Sources AC Current Source, Calibrator: AC Current		3,2.10 ⁻¹ . I +4,5 μA 2,4.10 ⁻² . I +2,7 μA 2,8.10 ⁻³ . I +8,3 μA 3,7.10 ⁻³ . I +27μA 1,1.10 ⁻² . I +0,37mA 3,6.10 ⁻³ . I +0,5 mA (0,0022) U +11mA 1,2.10 ⁻² . I +3,5 mA	I: Applied Value, A Fluke 8846A Fluke 376



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Accreditation Standard		ISO/IEC 17025:2017		
Certification Sectors				
CALIBRATION AREA	RANGE & RESOLUTION	CALIBRATION & MEASUREMENT CAPABILITY (CMC) (±)	TECHNIQUE. REFERENCE STANDARD. EQUIPMENT	


AC Current	0,2mA ≤ I < 2mA	1,0 · 10 ⁻³ · I + 1,2 μA	Tunkia Calibrator and 25/50 Round Coil I: Applied Value
	2mA ≤ I < 20mA	1,4 · 10 ⁻³ · I + 3,5 μA	
AC Current Meters	20mA ≤ I < 200mA	1,6 · 10 ⁻³ · I + 28μA	
	0,2A ≤ I < 1A	8,7 · 10 ⁻⁴ · I + 0,28mA	
Multimeter: AC	1A ≤ I < 2A	3,4 · 10 ⁻⁴ · I + 22μA	
Current Clampmeter	2A ≤ I ≤ 5A	2,2 · 10 ⁻⁴ · I + 0,35mA	
Clampmeter	5A ≤ I ≤ 30A	1,4 · 10 ⁻⁴ · I + 7,2mA	
	0,5A ≤ I < 5A	7,6 · 10 ⁻³ · I + 27mA	
	5A ≤ I < 50A	7,8 · 10 ⁻³ · I + 0,2A	
	50A ≤ I < 750A	7,8 · 10 ⁻³ · I + 0,7A	
	1A ≤ I < 10A	7,6 · 10 ⁻³ · I + 27mA	
	10A ≤ I < 100A	7,8 · 10 ⁻³ · I + 0,2A	
	100A ≤ I < 1500A	7,8 · 10 ⁻³ · I + 0,7A	
	45Hz ≤ f ≤ 1 kHz		



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Certification Sectors

CALIBRATION AREA	RANGE & RESOLUTION	CALIBRATION & MEASUREMENT CAPABILITY (CMC) (±)	TECHNIQUE. REFERENCE STANDARD. EQUIPMENT
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AC Power and Energy	1,2 mW ≤ P ≤ 120 W	5,1 mW/W	Tunkia Calibrator and 25/50 Round Coil I: Applied Value
Active Power:	6-600V / 0,2mA- 200mA		
Single Phase			
Power Meter	1,2 W ≤ P ≤ 3000W	4,9 mW/W	
Wattmeter	6-600V / 0,2A- 5A		
	66 W ≤ P ≤ 18000W	154 mW/W	
	6-600V / 0,11A- 30A		
	30 W ≤ P ≤ 450 kW	3,1 mW/W	
	6-600V / 5A- 750A		
	60 W ≤ P ≤ 900 kW	3,6 mW/W	
	6-600V / 10A- 1500A		
	45Hz ≤ f ≤ 65 Hz		



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Certification Sectors				
CALIBRATION AREA	RANGE & RESOLUTION	CALIBRATION & MEASUREMENT CAPABILITY (CMC) (±)	TECHNIQUE. REFERENCE STANDARD. EQUIPMENT	


DC Resistance	$1\Omega \leq R < 10\Omega$	$1,2 \cdot 10^{-4} \cdot R + 36\text{ m}\Omega$	Fluke 8846A DMM
DC Resistance Meters	$10\Omega \leq R < 100\Omega$	$1,5 \cdot 10^{-4} \cdot R + 12\text{ m}\Omega$	
Multimeter Resistance	$0,1\text{k}\Omega \leq R < 1\text{ k}\Omega$	$2,1 \cdot 10^{-4} \cdot R + 41\text{ m}\Omega$	
Multifunction Transfer Standard: Resistance	$1\text{k}\Omega \leq R < 10\text{ k}\Omega$	$2,1 \cdot 10^{-4} \cdot R + 0,4\Omega$	
Ohmmeter	$10\text{k}\Omega \leq R < 100\text{k}\Omega$	$1,8 \cdot 10^{-4} \cdot R + 4,4\Omega$	
	$0,1\text{M}\Omega \leq R < 1\text{ M}\Omega$	$2,6 \cdot 10^{-4} \cdot R + 36\Omega$	
	$1\text{ M}\Omega \leq R < 10\text{ M}\Omega$	$1,0 \cdot 10^{-7} \cdot R + 12\text{k}\Omega$	
	$10\text{ M}\Omega \leq R < 100\text{ M}\Omega$	$7,7 \cdot 10^{-3} \cdot R + 0,5\text{ M}\Omega$	
	$100\text{ M}\Omega \leq R < 1000\text{ M}\Omega$	$8,5 \cdot 10^{-3} \cdot R + 1\text{ M}\Omega$	
DC RESISTANCE	$0\Omega \leq R < 100\Omega$	$3,3 \cdot 10^{-4} \cdot R + 24\text{ m}\Omega$	With Tunkia1855 Calibrator R: Applied Value
DC Resistance Meters	$100\Omega \leq R < 300\Omega$	$3,5 \cdot 10^{-4} \cdot R + 70\text{ m}\Omega$	
Multimeter,Resistance, Ohmmeter,Insulation Testers	$0,3\text{k}\Omega \leq R < 1\text{ k}\Omega$	$3,5 \cdot 10^{-4} \cdot R + 0,23\Omega$	
	$1\text{k}\Omega \leq R < 3\text{ k}\Omega$	$3,5 \cdot 10^{-4} \cdot R + 0,7\Omega$	
	$3\text{k}\Omega \leq R < 10\text{ k}\Omega$	$3,5 \cdot 10^{-4} \cdot R + 2,3\Omega$	
	$10\text{k}\Omega \leq R < 30\text{k}\Omega$	$3,5 \cdot 10^{-4} \cdot R + 6,9\Omega$	
	$30\text{k}\Omega \leq R < 100\text{k}\Omega$	$3,5 \cdot 10^{-4} \cdot R + 23\Omega$	
	$100\text{k}\Omega \leq R < 300\text{k}\Omega$	$3,5 \cdot 10^{-4} \cdot R + 69\Omega$	
	$0,3\text{M}\Omega \leq R < 1\text{ M}\Omega$	$3,5 \cdot 10^{-4} \cdot R + 0,23\text{ k}\Omega$	
	$1\text{ M}\Omega \leq R < 10\text{ M}\Omega$	$3,5 \cdot 10^{-4} \cdot R + 0,23\text{ k}\Omega$	
	$10\text{ M}\Omega \leq R < 100\text{ M}\Omega$	$6,8 \cdot 10^{-4} \cdot R + 4,7\text{ k}\Omega$	



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		3,1. 10 ⁻³ .R +38 kΩ	
DC RESISTANCE DC Resistance Meters Multimeter,Resistance, Ohmmeter,Insulation Testers	10 kΩ 100 kΩ 1 MΩ 10 MΩ 100 MΩ 1 GΩ 10 GΩ 20 GΩ 10kV	0,06 kΩ 0,65 kΩ 6,5 kΩ 65 kΩ 650 kΩ 6,6 MΩ 72 MΩ 0,14 GΩ	With isolation resistance box R: applied value
CAPACITY Capacitor Capacitance Standards LCRMeter Multimeter	100pF≤C <1μF 100Hz≤f≤1 kHz	5,1. 10 ⁻³ . C	With Reference Capacity Box Direct measurement



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FREQUENCY METERS Frequency Counter, Analyzer	1Hz≤f<1 GHz	1,3·10 ⁻⁵ · f	f:Measured Frequency(Hz) Tunkia calibrator and MARCONI 2022
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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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