

CALIBRATION CERTIFICATE

Number: E-26-0167

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Customer	Electro Power Solution SH.P.K RRUGA "DIBRES", KOMPLEKSI "HALILI" 1015 Tirane, Albania
Instrument	MicroOhm 100A
Manufacturer	Metrel
Type	MI 3252
Serial No.	22250489
Calibration procedure	Calibration was carried out by comparison of values indicated, or set, on the object calibrated, with values of measurands, realized with measurement standards. Detailed descriptions, where necessary, are given along with measurement results.
Environmental conditions	Temperature: 22.4 °C ± 1 °C Relative humidity: 28 % ± 10 %
Date of calibration	2026-01-30
Calibration results	are given on the following pages

This calibration certificate documents the traceability to national standards, which realize the units of measurement according to the International System of Units (SI). The SA is one of the signatories of multilateral agreements of the European co-operation for Accreditation (EA) and of the International Laboratory Accreditation Cooperation (ILAC) for the mutual recognition of calibration certificates. The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by coverage factor $k=2$, which for a nominal distribution corresponds to a coverage probability of approximately 95%. The standard uncertainty of measurement has been determined in accordance with EA Publication EA-4/02.

Performed by:

Approved by:
Head of Calibration Laboratory

Date of issue:



Tine Žnidaršič

Jure Božnar 

2026-01-30



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Object calibrated (UUC):

MicroOhm 100A

Calibrated parameters:

- DC resistance
- DC voltage

Calibration procedure:

- L-KP-DCR
- L-KP-DCV

Metrel template: MicroOhm 100A Metrel MI 3252_a10

The calibration was carried out with resistors standards and universal calibrator.

Measurement conditions:

For the purpose of temperature stabilization, the UUC was stored in the measurement room prior to calibration for at least four hours.

UUC power supply: batteries

Calibration was performed using test leads/accessories owned by calibration laboratory.

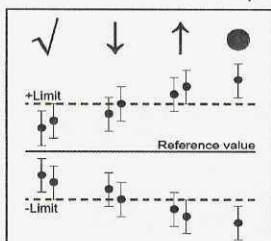
The tables includes following data:

Range	Set on UUC (function, subfunction)
Reference	set or indicated value on the standard
UUC	set or indicated value on the calibration item
Uncertainty	expanded measurement uncertainty ($k = 2$)
Error	UUC - Reference
Limit	limit of error, specifications

Limits of error for individual measured parameters are stated along with the measurement results and are calculated from manufacturer's specification given in:

Metrel, Instruction manual, MicroOhm 100A, MI 3252, Version 1.2.5; Code No. 20 751 784.

The statement of compliance is based on a 95% coverage probability for the expanded uncertainty.



√ - Compliance with the specification limit.

● - Non-compliance with the specification limit.

↓ - It is not possible to state compliance although the error is within the limit.

↑ - It is not possible to state non-compliance although the error is outside the limit.

Measurement results and their respective uncertainties refer to the measurements carried out during calibration and have no implication to the long term stability of the object. The results relate only to the object of calibration.

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MEASUREMENT RESULTS

UUC settings:

- Duration: 5 seconds

1. RESISTANCE

Range uΩ	Current A	Reference uΩ	UUC uΩ	Uncertainty uΩ	Error uΩ	Limit uΩ	
200	100	0,947	0,947	0,061	0,000		
200	100	10,423	10,429	0,064	0,006	± 0,026	↓
200	100	114,178	114,218	0,189	0,040	± 0,285	√
mΩ	A	mΩ	mΩ	mΩ	mΩ	mΩ	
2	100	1,15118	1,15153	0,00127	0,00035	± 0,00288	√
2	50	1,15118	1,15127	0,00127	0,00009	± 0,00288	√
40	50	10,6582	10,6613	0,0084	0,0031	± 0,0266	√
20	20	10,6582	10,6629	0,0084	0,0047	± 0,0266	√
100	20	10,658	10,663	0,009	0,005	± 0,027	√
20	10	10,6582	10,6644	0,0084	0,0062	± 0,0266	√
200	10	101,779	101,820	0,011	0,041	± 0,254	√
200	1	101,779	101,782	0,011	0,003	± 0,254	√
Ω	A	Ω	Ω	Ω	Ω	Ω	
2	1	0,99933	0,99933	0,00005	0,00000	± 0,00250	√
2	0,1	0,99933	0,99912	0,00005	-0,00021	± 0,00250	√
20	0,1	10,0179	10,0151	0,0003	-0,0028	± 0,0250	√

2. VOLTAGE

DC voltage between P1 and P2

Range	Current A	Reference mV	UUC mV	Uncertainty mV	Error mV	Limit mV	
200 uΩ	100	10	10,000	0,008	0,000	± 0,025	√
2 mΩ	100	100	100,00	0,02	0,00	± 0,25	√
20 mΩ	20	200	200,0	0,1	0,0	± 0,5	√
	A	V	V	V	V	V	
2 Ω	1	0,2	0,2000	0,0001	0,0000	± 0,0005	√
2 Ω	1	1,9	1,9000	0,0001	0,0000	± 0,0048	√

