

Measurements International Standards Calibration Laboratory

Certificate of Calibration

C1240520

CUSTOMER ADI	DRESS:			
MEASURAND:	ner e stade de la compressión	a ta mre de sessi ses se acontra tra delatrona d'Anci	Mental of the second of the	only has with a reversal rate or repeated 3 (lates, the type A dig- todered into the Chemicality Ar
MODEL NO.: MFG.:	SR104 ESI	S/N.: DESCRIPTION:	948019 10 kΩ Standard Air Resi	istor
Marian Maria	RANGE(S) OR POINTS COVERED B		ifoets and no bused to	CAL-11-010-04
REFERENCE ST MFG. ESI	ANDARD(S): DESCRIPTION 10 kΩ Standard Resistor	MODEL NO SR104		LIBRATED DATE CERTIFICATE November 10, 2022 ES-2022-0046-0
TEMP! HUMIC	AL CONDITIONS: AMBIENT: ERATURE: 23 °C ± 2 DITY: 32 % ± 10 METRIC PRESSURE: 101	_ °C _ % _ kPa	TEMPERATURE: _	OF MEASURAND: 23.00 °C ± 0.05 °C 32 % ± 10 %
THE REPORTED UNCER UNCERTAINTY (U) REPE	TAINTY OF MEASUREMENT IS STATED AS THE COMP	BINED STANDARD UNCERTAINTY MEASURED QUANTITY WITH A R THE ESTIMATED UNCERTAINTY	ROBABILITY OF APPROXIMATELTY 95% CONTAINS CONTRIBUTIONS ORIGINATIN	χ OF k = 2. THE MEASURED VALUE (y) AND THE ASSOCIA THE UNCERTAINTY WAS ESTIMATED USING ISO GUID ING FROM THE MEASUREMENT STANDARD CALIBRATED

CALIBRATED BY (SIGNATURE)

CERTIFICATE NO. AMENDED:

AMENDMENTS (IF APPLICABLE):

DATE OF CALIBRATION

May 25, 2024

REASON FOR AMENDMENT:

AUTHORIZING SIGNATURE

DATE OF ISSUE

2024-MAY-27

The reported measurements contained within this report relate only to the measurands calibrated.

These measurements are traceable to national standards and thus to the International System of Units (SI).



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TEST RESULTS:

The resistor (UUT) was calibrated by using a Direct Current Comparator Resistance Bridge, Model 6010, to compare it with a calibrated 10,000 Ω resistor in an air bath maintained at 23.000°C +/- 50mk using a 1000 Ω transfer resistor maintained at 25.000°C +/- 10mk in an oil bath.

The UUT was allowed to stabilize for a minimum of 48 hours prior to any measurements. The measurement current was 0.316 mA with a reversal rate of 12 seconds. 35 measurements with 25 measurements for statistics were taken. This was repeated 3 times, the type A uncertainty for the standard deviation of each measurement and the spread of values being inserted into the Uncertainty Analysis worksheet. The type B uncertainty for the measurement comes from the uncertainty of the $10,000~\Omega$ resistor. The type B and type A uncertainties are root sum squared and doubled to give expanded uncertainty.

The reported value of resistance is based on the results found when the UUT was in circulating air at 23.000°C +/- 50mk.

Uncertainty	
$(\mu\Omega/\Omega)$	

10000.0281 0.10

MEAN DATE OF MEASUREMENT:

May 25, 2024