Measurements International
Standards Calibration Laboratory

Certificate of Calibration

CERTIFICATE NO.:
C1220622

TEST RESULTS:

The resistor (UUT) was calibrated by using a Binary Voltage Divider Resistance Bridge, Model 6000, to compare it with a calibrated 100,000,000Ω resistor in an air bath maintained at 23.00°C +/- 100mk.

The UUT was allowed to stabilize a minimum of 24 hours in a temperature controlled bath. Each Voltage run had a settling rate of 45 seconds, 10 measurements with 9 measurements for statistics. . This was repeated 6 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 100MΩ 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.

Resistance (MOhms)	Uncertainty (μΩ/Ω)	Voltage (V)	Bath Temperature (°C)
100.00877	8.5	20	23

MEAN DATE OF MEASUREMENT: **June 25, 2022**

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CERTIFICATE NO.: **C1220622**

CUSTOMER NAME:
xDevs.com

CUSTOMER ADDRESS:
[redacted]

MEASURAND:

MODEL NO.:	SRL-100M	S/N.:	K1-1309646
MFG.:	IET	DESCRIPTION:	100 Mega Ohm Standard Air Resistor

CALIBRATION RANGE(S) OR POINTS COVERED BY THIS CERTIFICATE:
The measurement was performed with a test voltage of 20V at a bath temperature of 23C.

CALIBRATION PROCEDURE
CAL-11-011-04

REFERENCE STANDARD(S):

MFG.	DESCRIPTION	MODEL NO.	S/N.	CALIBRATED DATE	CERTIFICATE NO.
Measurements International	100 Mega Ohm Standard Air Resistor	9331G/100M	1100179	April 28, 2021	2021010047-1 (RM 34.276)

ENVIRONMENTAL CONDITIONS:

AMBIENT:		OF MEASURAND:	
TEMPERATURE:	23 °C ± 2 °C	TEMPERATURE:	23.00 °C ± 0.05 °C
HUMIDITY:	41 % ± 10 %	HUMIDITY:	41 % ± 10 %
BAROMETRIC PRESSURE:	101 kPa		

UNCERTAINTY OF MEASUREMENT

THE UNCERTAINTY OF MEASUREMENT IS ESTIMATED TO BE:

THE REPORTED UNCERTAINTY OF MEASUREMENT IS STATED AS THE COMBINED STANDARD UNCERTAINTY MULTIPLIED BY A COVERAGE FACTOR OF k = 2. THE MEASURED VALUE (y) AND THE ASSOCIATED UNCERTAINTY (U) REPRESENT THE INTERVAL (y ± U) WHICH CONTAINS THE MEASURED QUANTITY WITH A PROBABILITY OF APPROXIMATELTY 95%. THE UNCERTAINTY WAS ESTIMATED USING ISO GUIDE TO THE EXPRESSION OF UNCERTAINTY IN MEASUREMENT (GUM) GUIDELINES. THE ESTIMATED UNCERTAINTY CONTAINS CONTRIBUTIONS ORIGINATING FROM THE MEASUREMENT STANDARD CALIBRATED BY A NATIONAL LABORATORY, FROM THE CALIBRATION METHOD, FROM THE ENVIRONMENTAL CONDITIONS AND FROM THE MEASURAND BEING CALIBRATED. THE LONG-TERM BEHAVIOUR OF THE MEASURAND IS NOT INCLUDED.

AMENDMENTS (IF APPLICABLE):
CERTIFICATE NO. AMENDED: _____ REASON FOR AMENDMENT: _____

CALIBRATED BY (SIGNATURE)	DATE OF CALIBRATION	AUTHORIZING SIGNATURE
[signature]	June 24 - 25, 2022	DATE OF ISSUE: 22/06/27

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).