

Measurements International Standards Calibration Laboratory

CERTIFICATE NO.:

Certificate of Calibration C1220627

CUSTOMER NAME:							
xDevs.com							
CUSTOMER ADDRESS:							
		and the second					
MEACHDAND.							
MEASURAND: MODEL NO.: 742A-10	S/N.:	6715004					
MFG.: Fluke	DESCRIPTION:	10 MΩ Standard Ai	r Resistor				
CALIBRATION RANGE(S) OR POINTS COVERED BY THIS CERTIFICATE: CALIBRATION PROCEDURE							
The measurement was performed with a test voltage of 20V at a bath temperature of 23 °C. CAL-11-030-03							
CAL-11-030-03							
REFERENCE STANDARD(S):	W0751 NO	0.01	CALIDDATE	DDATE	CERTIFICATE NO		
MFG. DESCRIPTION	MODEL NO SR104	. S/N. 334054	August 11		ES-2021-0024-02		
ESI10KΩ Standard Re	SISTOT SK 104	334034	August 11	, 2021	L3-2021-0024-02		
ENVIDONMENTAL CONDITIONS.							
ENVIRONMENTAL CONDITIONS: AMBIENT: OF MEASURAND:							
TEMPERATURE: 23 °C ± 2 °C TEMPERATURE: 23 °C ± 2 °C							
HUMIDITY: 40	0 % ± 10 %	HUMIDITY:	40 %	± 10 %	/6		
BAROMETRIC PRESSURE: 101 kPa							
UNCERTAINTY OF MEASUREMENT	THE UNCERTAINTY OF MEASURE	MENT 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		AUTHORIZIN	IG SIGNAT	URE		
100000	June 30 – July	1. 2022	0	B			
1 / /// ///	Julie 30 – July	1, 2022	DATE OF ISS	SUE			
101X/5 1/1/			22/07	61			
Mall			22/01	100			

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).

Form: CAL-02-020-05



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TEST RESULTS:

The resistor (UUT) was calibrated by using a Binary Voltage Divider Resistance Bridge, Model 6000.

The UUT was allowed to stabilize for 48 hours in a temperature controlled bath. Each run had a settling rate of 20 seconds, 7 measurements with 6 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 $10 \mathrm{K}\Omega$ 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.

Resistance	Uncertainty	Voltage	Bath Temperature (°C)	
(MΩ)	(μΩ/Ω)	(V)		
10.000091	0.64	20	23	

MEAN DATE OF MEASUREMENT:

July 1, 2022

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