



Since 1998

NATIONAL CENTRE FOR QUALITY CALIBRATION

4, Abhishree Corporate Park, Nr. Swagat Bangalows BRTS, Iskcon-Ambli Road, Ambli, Ahmedabad-380 058

Ph. +91-79-29795322, 29795323 • Fax : +91-79-29795323, Cell No. +91-9327017517, +91-9328616370

E-mail : ncqc@calibrationlaboratory.in, • calibrationlab.ncqc@gmail.com

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CC-2128

Precision Calibration with National / International Traceability for Temperature, Dimensional, Pressure, Vacuum, Time, Mass, Electrical, Noise, Airflow, Lux & all Special Purpose Instruments in all ranges.

Calibration Certificate

F/CR/E/016 Issue No. 2

Name of Customer National Centre for Quality Calibration 4, Abhishree Corporate Park, Nr. Swagat Bungalows BRTS, Iskcon – Ambli Road, Ambli, Ahmedabad – 380 058, Gujarat	Certificate No. NCQC-E/020923/006
	Date of Issue 02/09/2023
	Date of Calibration 02/09/2023
	Suggested Due Date 01/09/2024
Date of Receipt / Ref.No.: 02/09/2023	

ULR No. : CC212823000007418F	Discipline : Electro-Technical Calibration Alternating Current & Direct Current
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Details of Observation of Unit Under Calibration	Identification No. : NCQC/E-08
	Serial No. : 200809378
	Name of Instrument : Decade Resistance Box

Range Resolution Make / Model Location	As per Manual 1 Ω Zeal/ZSDB Laboratory	Visual Inspection Accuracy OK As per Manual
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Loc. of Calibration Environment Cond. Actual Env. Cond.	At Laboratory 25 ± 4 °C, 30 to 75% Rh 25.3 °C 52.3 %Rh	Std. Ref. Used Cali.Method No.	IS 1248 Part-2 NCQC/CM/E/016
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Master Instruments Detail

NCQC SYS.NO.	Nomenclature	Make/ Model	Id / Serial No.	Traceable To	Certificate No.	Valid Upto
43	6 ½ Digital Multimeter	Fluke / 8846A	NCQC/E-04 / 1086005	CC-2634	M-221223-15-1/A	26/12/2023

Calibration Results

Range	Input Given by UUC	Unit	Reading Observed by Master Instrument	Absolute Error	Expanded Uncertainty in % (k=2) ±
1 - 9 Ω	1	ohm	1.00111	0.00111	0.383
	2	ohm	1.99886	0.00114	0.370
	3	ohm	2.99601	0.00399	0.370
	4	ohm	4.00094	0.00094	0.370
	5	ohm	4.99483	0.00517	0.370
	6	ohm	6.00075	0.00075	0.370
	7	ohm	6.99891	0.00109	0.370
	8	ohm	7.99707	0.00293	0.370
	9	ohm	8.99692	0.00308	0.370
10 - 90 Ω	10	ohm	10.00187	0.00187	0.048
	20	ohm	20.0014	0.0014	0.036
	30	ohm	30.0038	0.0038	0.029
	40	ohm	39.9974	0.0026	0.025
	50	ohm	50.0027	0.0027	0.023
	60	ohm	59.9878	0.0122	0.021
	70	ohm	69.9951	0.0049	0.021
	80	ohm	80.0031	0.0031	0.020

Traceable To National / International Standards.

Calibrated By 	Damini Rathod Calibration Engineer	Reviewed & Approved By 	Hitesh Limbachiya Calibration Incharge
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NCQC DEFINES CALIBRATION AS "PRECISION AND RELIABILITY OF INSTRUMENTS FOR YOUR BETTER TOMORROW"

NCQC System Certificate No. 32



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	Date of Issue	02/09/2023
	Date of Calibration	02/09/2023
	Suggested Due Date	01/09/2024
Date of Receipt / Ref.No.:		02/09/2023

ULR No. : CC21282300007418F Discipline : Electro-Technical Calibration
Alternating Current & Direct Current

Details of Observation of Unit Under Calibration
Identification No. : NCQC/E-08
Serial No. : 200809378
Name of Instrument : Decade Resistance Box

Calibration Results

Range	Input Given by UUC	Unit	Reading Observed by Master Instrument	Absolute Error	Expanded Uncertainty in % (k =2) ±
10 – 90 Ω	90	ohm	90.0062	0.0062	0.019
100 – 900 Ω	100	ohm	100.0064	0.0064	0.019
	200	ohm	200.008	0.008	0.020
	300	ohm	299.977	0.023	0.018
	400	ohm	399.947	0.053	0.017
	500	ohm	500.016	0.016	0.017
	600	ohm	600.046	0.046	0.016
	700	ohm	700.032	0.032	0.016
	800	ohm	800.065	0.065	0.016
	900	ohm	900.059	0.059	0.016
1 - 9 kΩ	1	kohm	1.000199	0.000199	0.021
	2	kohm	2.00107	0.00107	0.024
	3	kohm	2.99944	0.00056	0.021
	4	kohm	3.99887	0.00113	0.019
	5	kohm	4.99858	0.00142	0.017
	6	kohm	5.99901	0.00099	0.017
	7	kohm	6.99865	0.00135	0.017
	8	kohm	8.00006	0.00006	0.017
	9	kohm	9.00004	0.00004	0.017
10 - 90 kΩ	10	kohm	10.00338	0.00338	0.049
	20	kohm	20.0069	0.0069	0.038
	30	kohm	30.0166	0.0166	0.066
	40	kohm	40.0102	0.0102	0.029
	50	kohm	50.0030	0.0030	0.033
	60	kohm	60.0075	0.0075	0.046
	70	kohm	70.0087	0.0087	0.065
	80	kohm	80.0010	0.0010	0.044
	90	kohm	90.0066	0.0066	0.056

Traceable To National / International Standards.

Calibrated By <i>Damini Rathod</i>	Damini Rathod Calibration Engineer	Reviewed & Approved By <i>Hitesh Limbachiya</i>	Hitesh Limbachiya Calibration Incharge
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Name of Customer

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ULR No. : CC212823000007418F

Discipline : Electro-Technical Calibration
Alternating Current & Direct Current

Details of Observation of Unit Under Calibration

Identification No. : NCQC/E-08

Serial No. : 200809378

Name of Instrument : Decade Resistance Box

Calibration Results

Range	Input Given by UUC	Unit	Reading Observed by Master Instrument	Absolute Error	Expanded Uncertainty in % (k=2) ±
100 - 900 kΩ	100	kohm	99.9632	0.0368	0.016
	200	kohm	200.040	0.040	0.021
	300	kohm	299.972	0.028	0.018
	400	kohm	399.957	0.043	0.017
	500	kohm	499.935	0.065	0.017
	600	kohm	599.922	0.078	0.048
	700	kohm	699.881	0.119	0.048
	800	kohm	799.832	0.168	0.048
	900	kohm	899.847	0.153	0.048
1 - 9 MΩ	1	Mohm	0.999783	0.000217	0.025
	2	Mohm	1.99790	0.00210	0.055
	3	Mohm	2.99953	0.00047	0.052
	4	Mohm	4.00004	0.00004	0.051
	5	Mohm	4.99926	0.00074	0.050
	6	Mohm	6.00008	0.00008	0.059
	7	Mohm	6.99991	0.00009	0.059
	8	Mohm	7.99912	0.00088	0.059
	9	Mohm	8.99869	0.00131	0.059
10 - 90 MΩ	10	Mohm	9.99707	0.00293	0.059
	20	Mohm	19.9908	0.0092	0.982
	30	Mohm	29.9914	0.0086	0.962
	40	Mohm	39.9979	0.0021	0.953
	50	Mohm	49.9989	0.0011	0.947
	60	Mohm	60.0149	0.0149	0.943
	70	Mohm	69.9974	0.0026	0.940
	80	Mohm	80.0055	0.0055	0.938
	90	Mohm	89.9650	0.0350	0.937

Traceable To National / International Standards.

Calibrated By

Damini Rathod
Calibration Engineer

Reviewed & Approved By

Hitesh Limbachiya
Calibration Incharge

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 Alternating Current & Direct Current

Details of Observation of Unit Under Calibration
 Identification No. : NCQC/E-08
 Serial No. : 200809378
 Name of Instrument : Decade Resistance Box



Calibration Results

Range	Input Given by UUC	Unit	Reading Observed by Master Instrument	Absolute Error	Expanded Uncertainty in % (k =2) ±
100 - 900 MΩ	100	Mohm	100.0846	0.0846	0.935
	200	Mohm	200.226	0.226	2.367
	300	Mohm	300.350	0.350	2.348
	400	Mohm	400.212	0.212	2.339
	500	Mohm	500.427	0.427	2.333
	600	Mohm	600.247	0.247	2.330
	700	Mohm	700.173	0.173	2.330
	800	Mohm	800.528	0.528	2.330
	900	Mohm	901.167	1.167	2.330

Remarks:

- Averages of minimum five readings are reported.
- Suggested due date is given based on customer requirements
- Condition of instrument found satisfactory during receipt.
- These results are obtained at the time of calibration.
- Result relates to the item calibrated only.
- No external provider was used for calibration and hence it is not applicable.
- Calibration certificate shall not be reproduced except in full without written approval of Director, NCQC.
- Any hand written corrections (except @) or photocopies of the report invalidates this certificate.
- The uncertainties are for a confidence probability of not less than 95% with coverage factor k = 2
- Our masters are directly calibrated through NABL accredited calibration laboratory having direct traceability with National / international standard.

Traceable To National / International Standards.

Calibrated By  Damini Rathod Calibration Engineer	Reviewed & Approved By  Hitesh Limbachiya Calibration Incharge
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