



NATIONAL CENTRE FOR QUALITY CALIBRATION

4, Abhishree Corporate Park, Nr. Swagat Bungalows BRTS, Iskon-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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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/001/05 Issue No.02

Name of Customer: National Centre for Quality Calibration 4, Abhishree Corporate Park, Nr. Swagat Bungalows BRTS, Iskon - Ambli Road, Ambli, Ahmedabad - 380 058, Gujarat	Certificate No. NCQC-E/290224/001	Date of Issue 29/02/2024 Date of Calibration 29/02/2024 Suggested Due Date 28/02/2025
	Date of Receipt / Ref.No.: 29/02/2024	

ULR No.: CC212824000001108F	Discipline : Electro-Technical Calibration Alternating Current & Direct Current, Temp. Simulation
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Details of Observation of Unit Under Calibration	Identification No. : NCQC/T-02 Serial No. : 16118 Name of Instrument : Temperature/Electrical Calibrator (Multifunction Calibrator)
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Range As per Table	Initial Error Nil
Resolution As per Manual	Visual Inspection Satisfactory
Make / Model Beamex/MC - 2 TE	Accuracy As per Manual
Location Laboratory	

Loc. of Calibration At Laboratory	Std. Ref. Used Euramet CG_11 & 15
Environment Cond. 25 ± 4 °C, 30 to 75% Rh	Cali.Method No. NCQC/CME/001, 004, 005, 007, 009, 014, 015, 016, 017 & 018
Actual Env. Cond. 25.9 °C 50.7 %Rh	

Master Instruments Detail

NCQC SYS.NO.	Nomenclature	Make/ Model	Id / Serial No.	Traceable To	Certificate No.	Valid Upto
260	Multi-Product Calibrator	Fluke / 5522A	NCQC/E-01 / 3043901	CC-2634	M-230228-3-1	03/03/2024
43	6 ½ Digital Multimeter	Fluke / 8846A	NCQC/E-04 / 1086005	CC-2634	M-240109-1-1	09/01/2025

NCQC System Certificate No. 141

NCQC
Valid up to 28/02/2025
Reviewed _____

NCQC System Certificate No. 141

Traceable To National / International Standards.	
Calibrated By Trupen Parmar Calibration Incharge	Reviewed & Approved By Limbachiya Calibration Incharge





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	Date of Calibration 29/02/2024
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Date of Receipt / Ref.No.: 29/02/2024	

ULR No. : CC21282400001108F	Discipline : Electro-Technical Calibration Alternating Current & Direct Current, Temp. Simulation
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Details of Observation of Unit Under Calibration	Identification No. : NCQC/T-02
	Serial No. : 16118
	Name of Instrument : Temperature/Electrical Calibrator (Multifunction Calibrator)

Specification of UUC

Parameter	Range
DC Voltage Measure	-25 to 150 mV / -1 to 60V
DC Voltage Source	-25 to 150 mV / 0 to 12V
DC Current Source	0 to 25 mA
DC Current Measure	-100 mA to 100 mA
Frequency Source/Measure	0 to 10000 Hz/0 to 50000 Hz
Resistance Source / Measure	0 to 4000 Ω
J type Thermocouple	-210 to 1200 °C
K type Thermocouple	-200 to 1372 °C
N type Thermocouple	-270 to 1300 °C
R type Thermocouple	0 to 1768 °C
S type Thermocouple	0 to 1768 °C
C type Thermocouple	0 to 2315 °C
B type Thermocouple	600 to 1820 °C
E type Thermocouple	-270 to 1000 °C
T type Thermocouple	-270 to 400 °C
U type Thermocouple	-200 to 600 °C
L type Thermocouple	-200 to 900 °C
Pt 100 Simulation	-200 to 850 °C

Traceable To National / International Standards.

Calibrated By  Trupen Parmar
 Calibration Incharge

Reviewed & Approved By  Mitesh Limbachiya
 Calibration Incharge





Since 1998

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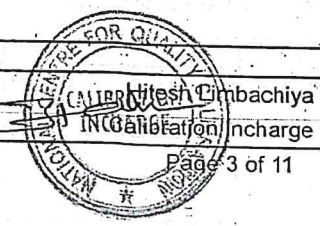


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ULR No. : CC212824000001108F		Discipline : Electro-Technical Calibration Alternating Current & Direct Current, Temp. Simulation			
Details of Observation of Unit Under Calibration		Identification No. : NCQC/T-02 Serial No. : 16118 Name of Instrument : Temperature/Electrical Calibrator (Multifunction Calibrator)			
Calibration Results of DCV Source					
Input Given by UUC	Unit	Reading Observed by Master Instrument	Absolute Error	Expanded Uncertainty in % (k=2) ±	
1.000	mV	1.0016	0.0016	0.415	
25.000	mV	25.0027	0.0027	0.046	
50.000	mV	50.0039	0.0039	0.046	
100.000	mV	100.0063	0.0063	0.046	
150.000	mV	150.009	0.009	0.046	
0.1000	V	0.100056	0.000056	0.060	
2.0000	V	2.00015	0.00015	0.011	
4.0000	V	4.00018	0.00018	0.011	
8.0000	V	8.00028	0.00028	0.011	
12.0000	V	12.0006	0.0006	0.014	
Calibration Results of DCA Source					
Input Given by UUC	Unit	Reading Observed by Master Instrument	Absolute Error	Expanded Uncertainty in % (k=2) ±	
0.100	mA	0.100241	0.000241	0.584	
5.000	mA	4.99849	0.00151	0.105	
10.000	mA	9.99825	0.00175	0.082	
20.000	mA	20.0007	0.0007	0.087	
25.000	mA	25.0015	0.0015	0.082	
Traceable To National / International Standards.					
Calibrated By		Trupen Parmar Calibration Incharge	Reviewed & Approved By		Hitesh Chimbachiya Incharge



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ULR No. : CC212824000001108F	Discipline : Electro-Technical Calibration Alternating Current & Direct Current, Temp. Simulation
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Details of Observation of Unit Under Calibration	Identification No. : NCQC/T-02 Serial No. : 16118 Name of Instrument : Temperature/Electrical Calibrator, (Multifunction Calibrator)
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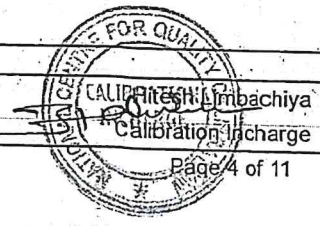
Calibration Results of Resistance Source

Input Given by UUC	Unit	Reading Observed by Master Instrument	Absolute Error	Expanded Uncertainty in % (k=2) ±
1.00	ohm	1.00318	0.00318	0.680
100.00	ohm	100.0027	0.0027	0.025
500.0	ohm	500.003	0.003	0.025
1000.0	ohm	1000.007	0.007	0.025
2000.0	ohm	2000.01	0.01	0.025
3000.0	ohm	3000.03	0.03	0.025
4000.0	ohm	4000.05	0.05	0.025

Calibration Results of Frequency Source

Input Given by UUC	Unit	Reading Observed by Master Instrument	Absolute Error	Expanded Uncertainty in % (k=2) ±
10.0000	Hz	9.99817	0.00183	0.134
50.000	Hz	49.9973	0.0027	0.121
500.00	Hz	499.989	0.011	0.121
1000.00	Hz	999.981	0.019	0.121
5000.0	Hz	4999.93	0.07	0.121
10000.0	Hz	9999.91	0.09	0.121

Traceable To National / International Standards.	
Calibrated By Trupen Parmar Calibration Incharge	Reviewed & Approved By Limbachiya Calibration Incharge



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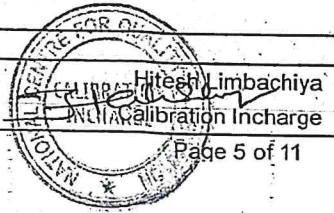
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Details of Observation of Unit Under Calibration		Identification No. : NCQC/T-02 Serial No. : 16118 Name of Instrument : Temperature/Electrical Calibrator (Multifunction Calibrator)			
Calibration Results of Temperature Source					
Type	Input Given by UUC in °C	Reading Observed by Master Instrument in °C	Absolute Error in °C	Expanded Uncertainty in °C (k=2) ±	
J	-210.00	-210.15	0.15	0.370	
J	0.00	-0.02	0.02	0.370	
J	800.00	800.04	0.04	0.370	
J	1200.00	1200.08	0.08	0.370	
K	-200.00	-200.09	0.09	0.520	
K	0.00	0.00	0.00	0.520	
K	800.00	799.92	0.08	0.520	
K	1372.00	1371.83	0.17	0.520	
N	-200.00	-200.15	0.15	0.530	
N	0.00	0.01	0.01	0.530	
N	800.00	800.07	0.07	0.530	
N	1300.00	1300.15	0.15	0.530	
R	0.00	0.10	0.10	0.666	
R	500.00	499.92	0.08	0.650	
R	1000.00	999.84	0.16	0.650	
R	1767.00	1766.73	0.27	0.650	
S	0.00	0.03	0.03	0.590	
S	500.00	499.93	0.07	0.590	
S	1000.00	999.86	0.14	0.590	
S	1767.00	1766.72	0.28	0.590	
Traceable To National / International Standards.					
Calibrated By		Trupen Parmar Calibration Incharge		Reviewed & Approved By Hitesh Limbachiya Calibration Incharge	





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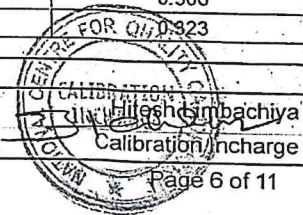
Details of Observation of Unit Under Calibration	Identification No. : NCQC/T-02
	Serial No. : 16118
	Name of Instrument : Temperature/Electrical Calibrator (Multifunction Calibrator)

Calibration Results of Temperature Source

Type	Input Given by UUC in °C	Reading Observed by Master Instrument in °C	Absolute Error in °C	Expanded Uncertainty in °C (k=2) ±
C	0.00	0.03	0.03	1.020
C	600.00	599.92	0.08	1.020
C	1800.00	1799.70	0.30	1.020
C	2315.00	2314.63	0.37	1.020
B	600.00	599.94	0.06	0.540
B	1200.00	1199.71	0.29	0.540
B	1500.00	1499.60	0.40	0.540
B	1820.00	1819.55	0.45	0.540
E	-250.00	-250.13	0.13	0.630
E	0.00	0.01	0.01	0.630
E	500.00	500.06	0.06	0.630
E	1000.00	1000.12	0.12	0.630
T	-250.00	-250.17	0.17	0.750
T	0.00	0.02	0.02	0.750
T	200.00	200.06	0.06	0.750
T	400.00	399.91	0.09	0.750
U	-200.00	-200.12	0.12	0.680
U	0.00	0.01	0.01	0.680
U	400.00	400.14	0.14	0.680
U	600.00	600.18	0.18	0.680
L	-200.00	-199.96	0.04	0.470
L	0.00	-0.01	0.01	0.470
L	200.00	199.95	0.05	0.470
L	900.00	899.89	0.11	0.470
Pt-100	-200.00	-200.021	0.021	0.280
Pt-100	0.00	-0.010	0.010	0.280
Pt-100	25.00	25.036	0.036	0.280
Pt-100	100.00	100.096	0.096	0.280
Pt-100	400.00	400.164	0.164	0.300
Pt-100	800.00	800.197	0.197	0.300

Traceable To National / International Standards.

Calibrated By	 Trupen Parmar Calibration Incharge	Reviewed & Approved By	 Vinaykesh Gimbachiya Calibration Incharge
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Calibration Results of DCV Measure

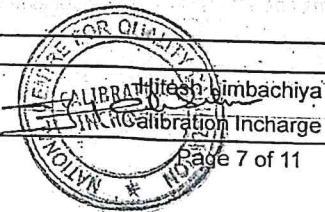
Input Given by Reference Instrument	Unit	Reading Observed by UUC	Absolute Error	Expanded Uncertainty in % (k=2) ±
0.1000	mV	0.101	0.001	1.980
25.0000	mV	24.998	0.002	1.980
50.0000	mV	49.998	0.002	1.980
100.0000	mV	99.997	0.003	1.980
150.0000	mV	149.995	0.005	1.980
0.100000	V	0.099991	0.000009	0.010
1.000000	V	0.99996	0.00004	0.010
10.00000	V	9.9996	0.0004	0.010
30.00000	V	29.998	0.002	0.010
60.0000	V	59.998	0.002	0.010

Calibration Results of DCA Measure

Input Given by Reference Instrument	Unit	Reading Observed by UUC	Absolute Error	Expanded Uncertainty in % (k=2) ±
0.10000	mA	0.1002	0.0002	0.087
25.0000	mA	25.0007	0.0007	0.017
50.000	mA	50.002	0.002	0.021
75.000	mA	75.003	0.003	0.028
100.000	mA	100.005	0.005	0.027

Traceable To National / International Standards.

Calibrated By Trupen Parmar Calibration Incharge	Reviewed & Approved By Hitesh Jimbachiya Calibration Incharge
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	Name of Instrument : Temperature/Electrical Calibrator (Multifunction Calibrator)



Calibration Results of Resistance Measure

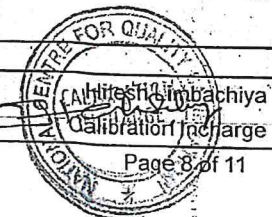
Input Given by Reference Instrument	Unit	Reading Observed by UUC	Absolute Error	Expanded Uncertainty in % (k=2) ±
1.0000	ohm	0.998	0.002	0.140
100.0000	ohm	99.998	0.002	0.140
500.000	ohm	499.98	0.02	0.010
1000.000	ohm	999.97	0.03	0.010
2000.000	ohm	1999.97	0.03	0.010
3000.000	ohm	2999.8	0.2	0.010
4000.00	ohm	3999.9	0.1	0.010

Calibration Results of Frequency Measure

Input Given by Reference Instrument	Unit	Reading Observed by UUC	Absolute Error	Expanded Uncertainty in % (k=2) ±
3.00	Hz	3.00033	0.00033	0.193
10.00	Hz	10.0004	0.0004	0.059
100.0	Hz	100.003	0.003	0.014
1000.0	Hz	1000.02	0.02	0.014
10.00	KHz	10.0005	0.0005	0.014
50.0	KHz	50.0002	0.0002	0.014

Traceable To National / International Standards.

Calibrated By  Trupen Parmar Calibration Incharge	Reviewed & Approved By  Chhitesh Limbachiya Calibration Incharge
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Calibration Certificate

F/CR/E/001/05 Issue No.02

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/290224/001	
	Date of Issue 29/02/2024	
	Date of Calibration 29/02/2024	
	Suggested Due Date 28/02/2025	
Date of Receipt / Ref.No.: 29/02/2024		

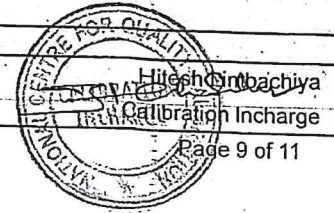
ULR No. : CC212824000001108F	Discipline : Electro-Technical Calibration Alternating Current & Direct Current, Temp. Simulation
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Details of Observation of Unit Under Calibration	Identification No. : NCQC/T-02
	Serial No. : 16118
	Name of Instrument : Temperature/Electrical Calibrator (Multifunction Calibrator)

Calibration Results of Temperature Measure

Type	Input Given by Reference Instrument in °C	Reading Observed by UUC in °C	Absolute Error in °C	Expanded Uncertainty in °C (k=2) ±
J	-209.00	-208.95	0.05	0.371
J	0.00	-0.02	0.02	0.330
J	800.00	800.05	0.05	0.341
J	1199.00	1199.13	0.13	0.351
K	-200.00	-200.05	0.05	0.500
K	0.00	0.02	0.02	0.500
K	800.00	800.08	0.08	0.500
K	1371.00	1371.16	0.16	0.500
N	-200.00	-199.98	0.02	0.504
N	0.00	-0.01	0.01	0.500
N	800.00	800.08	0.08	0.500
N	1299.00	1299.21	0.21	0.500
R	0.00	0.01	0.01	0.700
R	500.00	500.07	0.07	0.700
R	1000.00	1000.11	0.11	0.700
R	1766.00	1766.31	0.31	0.700
S	0.00	0.02	0.02	0.570
S	500.00	499.97	0.03	0.570
S	1000.00	999.95	0.05	0.570
S	1766.00	1765.74	0.26	0.570

Traceable To National / International Standards.	
Calibrated By Trupen Parmar Calibration Incharge	Reviewed & Approved By Hitesh Dintachiya Calibration Incharge



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NATIONAL CENTRE FOR QUALITY CALIBRATION

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 Visit our Web Site : www.calibrationlaboratory.in



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

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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/290224/001	
	Date of Issue 29/02/2024	
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Date of Receipt / Ref.No.: 29/02/2024		

ULR No. : CC212824000001108F	Discipline : Electro-Technical Calibration Alternating Current & Direct Current, Temp. Simulation
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Details of Observation of Unit Under Calibration	Identification No. : NCQC/T-02
	Serial No. : 16118
	Name of Instrument : Temperature/Electrical Calibrator (Multifunction Calibrator)

Type	Input Given by Reference Instrument in °C	Reading Observed by UUC in °C	Absolute Error in °C	Expanded Uncertainty in °C (k=2) ±
C	0.00	0.02	0.02	1.000
C	600.00	600.05	0.05	1.000
C	1800.00	1800.29	0.29	1.000
C	2314.00	2314.43	0.43	1.000
B	600.00	600.08	0.08	0.549
B	1200.00	1200.05	0.05	0.530
B	1500.00	1500.18	0.18	0.530
B	1800.00	1800.34	0.34	0.530
E	-250.00	-250.09	0.09	0.612
E	0.00	0.01	0.01	0.600
E	500.00	500.08	0.08	0.600
E	999.00	999.12	0.12	0.600
T	-250.00	-249.95	0.05	0.755
T	0.00	-0.02	0.02	0.740
T	200.00	199.93	0.07	0.740
T	400.00	399.92	0.08	0.740
U	-200.00	-200.08	0.08	0.677
U	0.00	0.01	0.01	0.677
U	400.00	400.06	0.06	0.660
U	599.00	599.13	0.13	0.660
L	-200.00	-200.06	0.06	0.472
L	0.00	0.01	0.01	0.472
L	200.00	200.05	0.05	0.440
L	899.00	899.16	0.16	0.440
Pt-100	-200.000	-200.07	0.07	0.300
Pt-100	0.000	0.01	0.01	0.300
Pt-100	25.000	25.01	0.01	0.300
Pt-100	100.000	100.03	0.03	0.300
Pt-100	400.000	400.06	0.06	0.300
Pt-100	800.000	800.10	0.10	0.300

Traceable To National / International Standards.	
Calibrated By Trupen Parmar Calibration Incharge	Reviewed & Approved By Hitesh Limbachiya Calibration Incharge



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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. Date of Issue Date of Calibration Suggested Due Date	NCQC-E/290224/001 29/02/2024 29/02/2024 28/02/2025
ULR No. : CC212824000001108F		Discipline : Electro-Technical Calibration Alternating Current & Direct Current, Temp. Simulation	
Details of Observation of Unit Under Calibration		Identification No. : NCQC/T-02 Serial No. : 16118 Name of Instrument : Temperature/Electrical Calibrator (Multifunction Calibrator)	

Remarks:

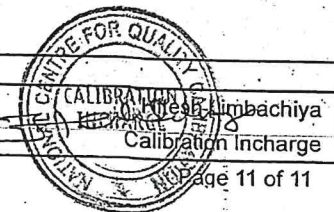
- Averages of minimum five readings are reported.
- Suggested due date is given based on customer requirements
- Condition of instrument found satisfactory during receipt.
- These results are obtained at the time of calibration.
- Result relates to the item calibrated only.
- No external provider was 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

Trupen Parmar
Calibration Incharge

Reviewed & Approved By



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NCQC DEFINES CALIBRATION AS "PRECISION AND RELIABILITY OF INSTRUMENTS FOR YOUR BETTER TOMORROW"