



Since 1998

# NATIONAL CENTRE FOR QUALITY CALIBRATION

4, Abhishree Corporate Park, Nr. Swagat Bungalows 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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**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

<b>Name of Customer</b> National Centre for Quality Calibration 4, Abhishree Corporate Park, Nr. Swagat Banglows, BRTS, Iskon – Ambli Road, Ambli, Ahmedabad. – 380058, Gujarat		Certificate No.	NCQC-E/080222/001			
		Date of Issue	10/02/2022			
		Date of Calibration	08/02/2022 to 09/02/2022			
		Suggested Due Date	07/02/2023			
Date of Receipt / Ref.No.: 08/02/2022		F/CR/E/001/05 Issue No.02				
ULR No. : CC212822000000266F	Discipline : Electro-Technical Calibration Alternating Current & Direct Current, Temp. Simulation					
<b>Details of Observation of Unit Under Calibration</b>		Identification No.	: NCQC/T-02			
		Serial No.	: 16118			
		Name of Instrument	: Temperature / Electrical Calibrator (Multifunction Calibrator)			
Range	As per Table	Visual Inspection	Satisfactory			
Resolution	As per Manual	Accuracy	As per Manual			
Make / Model	Beamex/MC - 2 TE					
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/CM/E/001, 002, 003, 004, 005, 007, 009, 014, 015, 016, 017 & 018			
<b>Master Instruments Detail</b>						
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-210301-5-1	03/03/2022
43	6 ½ Digital Multimeter	Fluke / 8846A	NCQC/E-04 / 1086005	CC-2634	M-211229-9-1	29/12/2022
<b>Specification of UUC</b>						
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	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					
<b>Traceable To National / International Standards.</b>						
Calibrated By	<i>Damini Rathod</i> Damini Rathod Calibration Engineer	Reviewed & Approved By	<i>Hitesh Limbachiya</i> Hitesh Limbachiya Calibration Incharge	07-02-2023		



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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 DCV Source

Input Given by UUC	Unit	Reading Observed by Master Instrument	Absolute Error	Expanded Uncertainty in % (k =2) ±
1.000	mV	1.0019	0.0019	0.419
25.000	mV	25.0024	0.0024	0.046
50.000	mV	50.0041	0.0041	0.046
100.000	mV	100.0064	0.0064	0.046
150.000	mV	150.008	0.008	0.046
0.1000	V	0.100053	0.000053	0.061
2.0000	V	2.00011	0.00011	0.012
4.0000	V	4.00013	0.00013	0.011
8.0000	V	8.00026	0.00026	0.011
12.0000	V	12.0005	0.0005	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	0.100247	0.000247	0.584
5.000	mA	4.99844	0.00156	0.105
10.000	mA	9.99827	0.00173	0.082
20.000	mA	20.0012	0.0012	0.087
25.000	mA	25.0024	0.0024	0.082

Traceable To National / International Standards.

Calibrated By 	Damini Rathod Calibration Engineer	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 Resistance Source

Input Given by UUC	Unit	Reading Observed by Master Instrument	Absolute Error	Expanded Uncertainty in % (k =2) ±
1.00	ohm	1.0032	0.0032	0.680
100.00	ohm	100.0034	0.0034	0.025
500.0	ohm	500.004	0.004	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

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

### 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	9.99815	0.00185	0.120
50.000	Hz	49.9976	0.0024	0.120
500.00	Hz	499.992	0.008	0.016
1000.00	Hz	999.984	0.016	0.016
5000.0	Hz	4999.96	0.04	0.016
10000.0	Hz	9999.93	0.07	0.016

### 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	-0.01	0.01	0.370
J	800.00	800.03	0.03	0.370
J	1200.00	1200.07	0.07	0.370
K	-200.00	-200.07	0.07	0.520
K	0.00	0.00	0.00	0.520
K	800.00	799.91	0.09	0.520
K	1372.00	1371.86	0.14	0.520
N	-200.00	-200.13	0.13	0.530
N	0.00	0.01	0.01	0.530
N	800.00	800.09	0.09	0.530
N	1300.00	1300.14	0.14	0.530
R	0.00	0.11	0.11	0.666
R	500.00	499.93	0.07	0.650
R	1000.00	999.85	0.15	0.650
R	1767.00	1766.77	0.23	0.650
S	0.00	0.05	0.05	0.590
S	500.00	499.93	0.07	0.590
S	1000.00	999.89	0.11	0.590
S	1767.00	1766.74	0.26	0.590

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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### 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	0.05	0.05	1.020
C	600.00	599.93	0.07	1.020
C	1800.00	1799.75	0.25	1.020
C	2315.00	2314.67	0.33	1.020
B	600.00	599.96	0.04	0.540
B	1200.00	1199.76	0.24	0.540
B	1500.00	1499.67	0.33	0.540
B	1820.00	1819.62	0.38	0.540
E	-250.00	-250.11	0.11	0.630
E	0.00	0.01	0.01	0.630
E	500.00	500.07	0.07	0.630
E	1000.00	1000.15	0.15	0.630
T	-250.00	-250.15	0.15	0.750
T	0.00	0.03	0.03	0.750
T	200.00	200.04	0.04	0.750
T	400.00	399.95	0.05	0.750
U	-200.00	-200.15	0.15	0.680
U	0.00	0.02	0.02	0.680
U	400.00	400.13	0.13	0.680
U	600.00	600.19	0.19	0.680
L	-200.00	-199.95	0.05	0.470
L	0.00	-0.01	0.01	0.470
L	200.00	199.98	0.02	0.470
L	900.00	899.91	0.09	0.470
Pt-100	-200.00	-200.023	0.023	0.280
Pt-100	0.00	-0.011	0.011	0.280
Pt-100	25.00	25.032	0.032	0.280
Pt-100	100.00	100.092	0.092	0.280
Pt-100	400.00	400.165	0.165	0.300
Pt-100	800.00	800.196	0.196	0.307

Traceable To National / International Standards.

Calibrated By 	Damini Rathod Calibration Engineer	Reviewed & Approved By 	Hitesh Limbachiya Calibration Incharge
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	Serial No.	: 16118	
	Name of Instrument	: Temperature / Electrical Calibrator (Multifunction Calibrator)	

### 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	0.100	0.000	1.980
25.0000	mV	24.999	0.001	1.980
50.0000	mV	49.999	0.001	1.980
100.0000	mV	99.998	0.002	1.980
150.0000	mV	149.997	0.003	1.980
0.100000	V	0.099994	0.000006	0.011
1.000000	V	0.99998	0.00002	0.010
10.00000	V	9.9997	0.0003	0.010
30.00000	V	29.999	0.001	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	0.1001	0.0001	0.087
25.0000	mA	25.0009	0.0009	0.017
50.000	mA	50.001	0.001	0.021
75.000	mA	75.003	0.003	0.019
100.000	mA	100.009	0.009	0.018

Traceable To National / International Standards.

Calibrated By		Damini Rathod Calibration Engineer	Reviewed & Approved By		Hitesh Limbachiya 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	0.999	0.001	0.140
100.0000	ohm	99.999	0.001	0.140
500.000	ohm	499.98	0.02	0.010
1000.000	ohm	999.98	0.02	0.010
2000.000	ohm	1999.97	0.03	0.010
3000.000	ohm	2999.9	0.1	0.010
4000.00	ohm	3999.9	0.1	0.010

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### 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	3.00034	0.00034	0.193
10.00	Hz	10.0003	0.0003	0.059
100.0	Hz	100.002	0.002	0.014
1000.0	Hz	1000.01	0.01	0.014
10.00	kHz	10.0005	0.0005	0.014
50.0	kHz	50.0002	0.0002	0.014

### 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	-208.93	0.07	0.371
J	0.00	-0.01	0.01	0.330
J	800.00	800.06	0.06	0.341
J	1199.00	1199.15	0.15	0.351
K	-200.00	-200.05	0.05	0.500
K	0.00	0.01	0.01	0.500
K	800.00	800.09	0.09	0.500
K	1371.00	1371.17	0.17	0.500
N	-200.00	-199.98	0.02	0.504
N	0.00	-0.01	0.01	0.500
N	800.00	800.13	0.13	0.500
N	1299.00	1299.23	0.23	0.500
R	0.00	0.02	0.02	0.700
R	500.00	500.11	0.11	0.700
R	1000.00	1000.16	0.16	0.700
R	1766.00	1766.31	0.31	0.700
S	0.00	0.03	0.03	0.570
S	500.00	499.98	0.02	0.570
S	1000.00	999.93	0.07	0.570
S	1766.00	1765.75	0.25	0.570

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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# 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  
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CC-2128

Visit our Web Site : [www.calibrationlaboratory.in](http://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

<b>Name of Customer</b> National Centre for Quality Calibration 4, Abhishree Corporate Park, Nr. Swagat Banglows, BRTS, Iskon – Ambli Road, Ambli, Ahmedabad. – 380058, Gujarat		Certificate No. Date of Issue Date of Calibration Suggested Due Date	NCQC-E/080222/001 10/02/2022 08/02/2022 to 09/02/2022 07/02/2023
Date of Receipt / Ref.No.: 08/02/2022		F/CR/E/001/05 Issue No.02	
ULR No. : CC21282200000266F	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)		

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	0.01	0.01	1.000
C	600.00	600.07	0.07	1.000
C	1800.00	1800.32	0.32	1.000
C	2314.00	2314.46	0.46	1.000
B	600.00	600.11	0.11	0.549
B	1200.00	1200.06	0.06	0.530
B	1500.00	1500.23	0.23	0.530
B	1800.00	1800.34	0.34	0.530
E	-250.00	-250.08	0.08	0.612
E	0.00	0.00	0.00	0.600
E	500.00	500.09	0.09	0.600
E	999.00	999.12	0.12	0.600
T	-250.00	-249.96	0.04	0.755
T	0.00	-0.01	0.01	0.740
T	200.00	199.95	0.05	0.740
T	400.00	399.93	0.07	0.740
U	-200.00	-200.07	0.07	0.677
U	0.00	0.01	0.01	0.677
U	400.00	400.05	0.05	0.660
U	599.00	599.11	0.11	0.660
L	-200.00	-200.05	0.05	0.472
L	0.00	-0.02	0.02	0.472
L	200.00	200.05	0.05	0.440
L	899.00	899.18	0.18	0.440
Pt-100	-200.000	-200.05	0.05	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	400.07	0.07	0.300
Pt-100	800.000	800.11	0.11	0.300

Traceable To National / International Standards.

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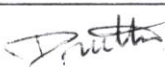

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<b>Name of Customer</b> National Centre for Quality Calibration 4, Abhishree Corporate Park, Nr. Swagat Banglows, BRTS, Iskon – Ambli Road, Ambli, Ahmedabad. – 380058, Gujarat		Certificate No.	NCQC-E/080222/001
		Date of Issue	10/02/2022
		Date of Calibration	08/02/2022 to 09/02/2022
		Suggested Due Date	07/02/2023
Date of Receipt / Ref.No.: 08/02/2022		F/CR/E/001/05 Issue No.02	
ULR No. : CC21282200000266F	Discipline : Electro-Technical Calibration Alternating Current & Direct Current, Temp. Simulation		
<b>Details of Observation of Unit Under Calibration</b>	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.
- 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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