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NATIONAL CENTRE FOR QUALITY CALIBRATION

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

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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

Name of Customer → National Centre For Quality Calibration 4, Abhishree Corporate Park, Near Swagat Bungalows BRTS, Iskcon – Ambli Road, Ambli, Ahmedabad-380 058, Gujarat, India.	Certificate No. Date of Issue Date of Calibration Suggested Due Date	NCQC-E/1 30624/12 15-06-2024 13-06-2024 12-06-2025
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Date Of Receipt / Ref. No. → 13-06-2024

F/CR/E/001/05/1, Issue No.02
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ULR – CC212824000004223F

Discipline → **Electro-Technical Calibration,**

Alternating Current & Direct Current / Temperature Simulation

Details of Observation of Unit
Under Calibration

Identification No. : **NCQC/E-02**
Serial No. : **1694005**
Make / Model No. : **Fluke/5500E**
Name of Instrument : **Multi-product Calibrator**

Calibration Results of Source Mode

Calibration Results of DCV

Range	Set Points On UUC In mV/V	Reading Observed by 6 ½ Digit Multimeter In mV/V	Absolute Error In mV/V	± Expanded Uncertainty (K=2)
329.9999 mV	1.0000	1.0002	0.0002	± 0.424 %
	50.0000	50.0005	0.0005	± 0.424 %
	100.0000	100.003	0.003	± 0.424 %
	200.0000	200.006	0.006	± 0.046 %
	300.0000	300.008	0.008	± 0.046 %
	329.0000	328.992	0.008	± 0.046 %
3.299999 V	0.330000	0.329985	0.000015	± 0.046 %
	3.290000	3.28992	0.00008	± 0.011 %
32.99999 V	10.00000	10.00015	0.00015	± 0.011 %
	20.00000	20.0007	0.0007	± 0.011 %
	30.00000	30.0008	0.0008	± 0.011 %
	32.90000	32.9012	0.0012	± 0.011 %
32.99999 V	32.90000	32.9009	0.0009	± 0.011 %
329.9999 V	329.0000	329.011	0.011	± 0.013 %
1020.000 V	1000.000	1000.013	0.013	± 0.011 %

NCQC System Certificate No. 17

Traceable To National / International Standards.

Calibrated By

Yuvrajsinh Chavda

Reviewed & Approved By

Hitesh Limbachiya

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Date Of Receipt / Ref. No. → 13-06-2024		F/CR/E/001/05/1, Issue No.02 Page 2 of 13		
Details of Observation of Unit Under Calibration	Identification No.	NCQC/E-02		
	Serial No.	1694005		
	Make / Model No.	Fluke/5500E		
	Name of Instrument	Multi-product Calibrator		
Calibration Results of ACV @ 50 Hz				
Range	Set Points On UUC In mV/V	Reading Observed by 6 ½ Digit Multimeter In mV/V	Absolute Error In mV/V	± Expanded Uncertainty (K=2)
32.999 mV	1.000	1.0006	0.0006	± 4.8 10 %
329.999 mV	33.000	33.0009	0.0009	± 0.5 30 %
	329.900	329.894	0.006	± 0.5 30 %
3.29999 V	3.29000	3.28978	0.00022	± 0.1 76 %
32.9999 V	32.9000	32.8993	0.0007	± 0.1 76 %
329.999 V	329.000	329.010	0.010	± 0.1 50 %
1020.00 V	1000.00	1000.14	0.14	± 0.0 98 %
Calibration Results of DC Current				
Range	Set Points On UUC In mA/A	Reading Observed by 6 ½ Digit Multimeter In mA/A	Absolute Error In mA/A	± Expanded Uncertainty (K=2)
3.29999 mA	0.01000	0.009986	0.000014	± 2.9 55 %
	3.29000	3.28974	0.00026	± 0.1 28 %
32.9999 mA	3.30000	3.29985	0.00015	± 0.1 28 %
	8.00000	8.00012	0.00012	± 0.1 28 %
	10.00000	10.00023	0.00023	± 0.1 28 %
	15.00000	15.00024	0.00024	± 0.1 28 %
	18.00000	18.00022	0.00022	± 0.1 28 %
	20.00000	20.0010	0.0010	± 0.0 76 %
	32.9000	32.8989	0.0011	± 0.0 76 %
329.999 mA	50.0000	50.0017	0.0017	± 0.0 76 %
	150.0000	150.0023	0.0023	± 0.0 65 %
	329.000	329.021	0.021	± 0.0 65 %
2.19999 A	0.33000	0.329974	0.000026	± 0.0 84 %
	2.19000	2.18986	0.00014	± 0.1 53 %
11.0000 A	10.0000	9.99883	0.00117	± 0.1 90 %

Traceable To National / International Standards.

Calibrated By	Yuvrajsinh Chavda	Reviewed & Approved By	Hitesh Limbachiya
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Date Of Receipt / Ref. No. → 13-06-2024		F/CR/E/001/05/1, Issue No.02 Page 3 of 13	
Details of Observation of Unit Under Calibration	Identification No.	: NCQC/E-02	
	Serial No.	: 1694005	
	Make / Model No.	: Fluke/5500E	
	Name of Instrument	: Multi-product Calibrator	

Calibration Results of AC Current @ 50 Hz

Range	Set Points On UUC In $\mu A/mA/A$	Reading Observed by 6 ½ Digit Multimeter In $\mu A/mA/A$	Absolute Error In $\mu A/mA/A$	± Expanded Uncertainty (K=2)
329.99 μA	30.00	30.0021	0.0021	± 0.430 %
3.29999 mA	0.33000	0.329935	0.000065	± 0.259 %
32.9999 mA	3.3000	3.29989	0.00011	± 0.550 %
329.999 mA	33.000	32.9960	0.0040	± 0.256 %
	329.000	329.023	0.023	± 0.270 %
2.19999 A	2.19000	2.19027	0.00027	± 0.317 %
11.0000 A	10.0000	10.00036	0.00036	± 0.250 %

Calibration Results of Resistance (4 wire)

Range	Set Points On UUC In $\Omega/K\Omega/M\Omega$	Reading Observed by 6 ½ Digit Multimeter In $\Omega/K\Omega/M\Omega$	Absolute Error In $\Omega/K\Omega/M\Omega$	± Expanded Uncertainty (K=2)
10.999 Ω	1.000	1.00017	0.00017	± 0.370 %
	10.900	10.8992	0.0008	± 0.045 %
32.999 Ω	32.900	32.9013	0.0013	± 0.027 %
109.99 Ω	109.90	109.909	0.009	± 0.025 %
329.99 Ω	200.00	200.013	0.013	± 0.025 %
	329.00	329.015	0.015	± 0.025 %
1.09999 K Ω	0.33000	0.330044	0.000044	± 0.025 %
	1.09000	1.090036	0.000036	± 0.025 %
3.29999 K Ω	3.29000	3.28972	0.00028	± 0.025 %
10.9999 K Ω	10.9000	10.9013	0.0013	± 0.025 %
32.9999 K Ω	32.9000	32.9017	0.0017	± 0.025 %
109.999 K Ω	109.000	109.0046	0.0046	± 0.025 %

Traceable To National / International Standards.

Calibrated By	Yuvrajsinh Chavda	Reviewed & Approved By	Hitesh Limbachiya
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Date Of Receipt / Ref. No. → 13-06-2024		F/CR/E/001/05/1, Issue No.02 Page 4 of 13		
Details of Observation of Unit Under Calibration	Identification No. : NCQC/E-02 Serial No. : 1694005 Make / Model No. : Fluke/5500E Name of Instrument : Multi-product Calibrator			
Calibration Results of Resistance (2 wire)				
Range	Set Points On UUC In $\Omega/K\Omega/M\Omega$	Reading Observed by 6 ½ Digit Multimeter In $\Omega/K\Omega/M\Omega$	Absolute Error In $\Omega/K\Omega/M\Omega$	± Expanded Uncertainty (K=2)
10.999 Ω	1.000	1.00039	0.00039	± 0.370 %
	10.900	10.8992	0.0008	± 0.046 %
32.999 Ω	32.900	32.9023	0.0023	± 0.027 %
109.99 Ω	109.90	109.908	0.008	± 0.025 %
329.99 Ω	100.00	100.011	0.011	± 0.025 %
	150.00	150.013	0.013	± 0.025 %
	200.00	200.019	0.019	± 0.025 %
	250.00	250.022	0.0222	± 0.025 %
	300.00	300.024	0.024	± 0.025 %
	329.00	329.030	0.030	± 0.025 %
1.09999 K Ω	0.33000	0.330041	0.000041	± 0.025 %
	0.50000	0.500048	0.000048	± 0.025 %
	0.60000	0.600052	0.000052	± 0.025 %
	0.70000	0.700057	0.000057	± 0.025 %
	0.80000	0.800062	0.000062	± 0.025 %
	1.09000	1.090063	0.000063	± 0.025 %
3.29999 K Ω	3.29000	3.28978	0.00022	± 0.025 %
10.9999 K Ω	10.9000	10.9009	0.0009	± 0.025 %
32.9999 K Ω	32.9000	32.9033	0.0033	± 0.025 %
109.999 K Ω	109.000	109.0059	0.0059	± 0.025 %

Traceable To National / International Standards.

Calibrated By

Yuvrajsinh Chavda

Reviewed & Approved By

Hitesh Limbachiya

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Date Of Receipt / Ref. No. → 13-06-2024	Date of Calibration	13-06-2024
	Suggested Due Date	12-06-2025
F/CR/E/001/05/1, Issue No.02		Page 5 of 13
Details of Observation of Unit Under Calibration	Identification No.	: NCQC/E-02
	Serial No.	: 1694005
	Make / Model No.	: Fluke/5500E
	Name of Instrument	: Multi-product Calibrator

Calibration Result of Capacitance

Range	Set Points On UUC	Reading Observed by 6 ½ Digit Multimeter In nF/μF	Absolute Error In nF/μF	± Expanded Uncertainty (K=2)
1.0999 nF	1.0000	0.997	0.003	± 6.571 %
10.999 nF	10.000	9.97	0.03	± 1.770 %
109.999 nF	100.00	100.20	0.20	± 1.770 %
1.0999 μF	1.0000	1.003	0.003	± 1.973 %
10.999 μF	10.000	10.02	0.02	± 1.849 %
109.99 μF	100.00	100.1	0.1	± 1.818 %
1100 μF	1000.0	1002	2	± 1.740 %

Calibration Results of Frequency @ 1 V

Range	Set Points On UUC In Hz/kHz/MHz	Reading Observed by 6 ½ Digit Multimeter In Hz/kHz/MHz	Absolute Error In Hz/kHz/MHz	± Expanded Uncertainty (K=2)
119.99 Hz	10.00	10.00013	0.00013	± 0.116 %
	119.00	119.0005	0.0005	± 0.798 %
1199.9 Hz	120.0	120.0011	0.0011	± 0.793 %
11.999 kHz	1.200	1.20013	0.00013	± 0.094 %
119.99 kHz	12.00	11.9993	0.0007	± 0.051 %
1199.9 kHz	120.0	119.991	0.009	± 0.050 %
2000 kHz	1000	999.986	0.014	± 0.016 %

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Date Of Receipt / Ref. No. → 13-06-2024		F/CR/E/001/05/1, Issue No.02 Page 6 of 13		
Details of Observation of Unit Under Calibration	Identification No. : NCQC/E-02 Serial No. : 1694005 Make / Model No. : Fluke/5500E Name of Instrument : Multi-product Calibrator			
Calibration Results of 'Pt – 100' Type (–200 to 800 °C)				
Range	Set Points On UUC In °C	Reading Observed by 6 ½ Digit Multimeter In °C	Absolute Error In °C	± Expanded Uncertainty (K=2)
–200 to 800 °C	–199.000	–199.070	0.070	± 0.28 °C
	0.000	–0.017	0.017	± 0.28 °C
	100.000	99.956	0.044	± 0.28 °C
	200.000	199.918	0.082	± 0.28 °C
	300.000	299.906	0.094	± 0.28 °C
	600.000	599.941	0.059	± 0.28 °C
Calibration Results of 'K' Type (–200 to 1372 °C)				
Range	Set Points On UUC In °C	Reading Observed by Multi Product Calibrator In °C	Absolute Error In °C	± Expanded Uncertainty (K=2)
–200 °C to 1372 °C	–199.00	–199.05	0.05	± 0.52 °C
	200.00	200.04	0.04	± 0.52 °C
	400.00	400.04	0.04	± 0.52 °C
	500.00	500.07	0.07	± 0.52 °C
	800.00	800.08	0.08	± 0.52 °C
	1350.00	1350.07	0.07	± 0.52 °C
Calibration Results of 'J' Type (–210 to 1200 °C)				
Range	Set Points On UUC In °C	Reading Observed by Multi Product Calibrator In °C	Absolute Error In °C	± Expanded Uncertainty (K=2)
–210 °C to 1200 °C	–199.00	–198.94	0.06	± 0.37 °C
	0.00	0.01	0.01	± 0.37 °C
	400.00	399.96	0.04	± 0.37 °C
	500.00	499.93	0.07	± 0.37 °C
	800.00	799.92	0.08	± 0.37 °C
	1190.00	1189.91	0.09	± 0.37 °C

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Details of Observation of Unit Under Calibration	Identification No. : NCQC/E-02 Serial No. : 1694005 Make / Model No. : Fluke/5500E Name of Instrument : Multi-product Calibrator			
Calibration Results of 'E' Type (-250 to 1000 °C)				
Range	Set Points On UUC In °C	Reading Observed by Multi Product Calibrator In °C	Absolute Error In °C	± Expanded Uncertainty (K=2)
-250 °C to 1000 °C	-199.00	-199.02	0.02	± 0.63 °C
	0.00	0.01	0.01	± 0.63 °C
	200.00	200.03	0.03	± 0.63 °C
	300.00	300.05	0.05	± 0.63 °C
	500.00	500.06	0.06	± 0.63 °C
	990.00	990.08	0.08	± 0.63 °C
Calibration Results of 'T' Type (-250 to 400 °C)				
Range	Set Points On UUC In °C	Reading Observed by Multi Product Calibrator In °C	Absolute Error In °C	± Expanded Uncertainty (K=2)
-250 °C to 400 °C	-199.00	-199.04	0.04	± 0.75 °C
	0.00	0.00	0.00	± 0.75 °C
	100.00	100.03	0.03	± 0.75 °C
	200.00	200.04	0.04	± 0.75 °C
	300.00	300.04	0.04	± 0.75 °C
	400.00	400.05	0.05	± 0.75 °C
Calibration Results of 'R' Type (0 to 1767 °C)				
Range	Set Points On UUC In °C	Reading Observed by Multi Product Calibrator In °C	Absolute Error In °C	± Expanded Uncertainty (K=2)
0 °C to 1767 °C	200.00	200.04	0.06	± 0.67 °C
	600.00	599.95	0.05	± 0.65 °C
	800.00	799.92	0.08	± 0.65 °C
	1000.00	999.91	0.09	± 0.65 °C
	1400.00	1399.90	0.10	± 0.65 °C
	1750.00	1749.90	0.10	± 0.65 °C

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Details of Observation of Unit Under Calibration	Identification No. Serial No. Make / Model No. Name of Instrument	: NCQC/E-02 : 1694005 : Fluke/5500E : Multi-product Calibrator		
Calibration Results of 'B' Type (600 to 1820 °C)				
Range	Set Points On UUC In °C	Reading Observed by Multi Product Calibrator In °C	Absolute Error In °C	± Expanded Uncertainty (K=2)
600 °C to 1820 °C	600.00	600.03	0.03	± 0.54 °C
	800.00	800.05	0.05	± 0.54 °C
	1000.00	1000.06	0.06	± 0.54 °C
	1200.00	1200.07	0.07	± 0.54 °C
	1500.00	1500.07	0.07	± 0.54 °C
	1750.00	1750.09	0.09	± 0.54 °C
Calibration Results of 'S' Type (0 to 1767 °C)				
Range	Set Points On UUC In °C	Reading Observed by Multi Product Calibrator In °C	Absolute Error In °C	± Expanded Uncertainty (K=2)
0 °C to 1767 °C	200.00	200.02	0.02	± 0.59 °C
	400.00	400.02	0.02	± 0.59 °C
	600.00	600.04	0.04	± 0.59 °C
	1000.00	1000.06	0.06	± 0.59 °C
	1400.00	1400.08	0.08	± 0.59 °C
	1750.00	1750.10	0.10	± 0.59 °C
Calibration Results of 'N' Type (–200 to 1300 °C)				
Range	Set Points On UUC In °C	Reading Observed by Multi Product Calibrator In °C	Absolute Error In °C	± Expanded Uncertainty (K=2)
–200 °C to 1300 °C	–199.00	–199.06	0.06	± 0.53 °C
	0.00	–0.01	0.01	± 0.53 °C
	200.00	199.95	0.05	± 0.53 °C
	500.00	499.95	0.05	± 0.53 °C
	600.00	599.93	0.07	± 0.53 °C
	1250.00	1249.91	0.09	± 0.53 °C

Traceable To National / International Standards.

Calibrated By 	Yuvrajsinh Chavda	Reviewed & Approved By 	Hitesh Limbachiya
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Date Of Receipt / Ref. No. → 13-06-2024		F/CR/E/001/05/1, Issue No.02 Page 9 of 13		
Details of Observation of Unit Under Calibration	Identification No. : NCQC/E-02 Serial No. : 1694005 Make / Model No. : Fluke/5500E Name of Instrument : Multi-product Calibrator			
Calibration Results of 'L' Type (–200 to 900 °C)				
Range	Set Points On UUC In °C	Reading Observed by Multi Product Calibrator In °C	Absolute Error In °C	± Expanded Uncertainty (K=2)
–200 °C to 900 °C	–199.00	–199.05	0.05	± 0.47 °C
	0.00	–0.02	0.02	± 0.47 °C
	200.00	200.03	0.03	± 0.47 °C
	300.00	300.05	0.05	± 0.47 °C
	400.00	400.06	0.06	± 0.47 °C
	890.00	890.07	0.07	± 0.47 °C
Calibration Results of 'U' Type (–200 to 600 °C)				
Range	Set Points On UUC In °C	Reading Observed by Multi Product Calibrator In °C	Absolute Error In °C	± Expanded Uncertainty (K=2)
–200 °C to 600 °C	–199.00	–198.95	0.05	± 0.68 °C
	0.00	–0.02	0.02	± 0.68 °C
	100.00	99.98	0.02	± 0.68 °C
	200.00	199.94	0.06	± 0.68 °C
	300.00	299.94	0.06	± 0.68 °C
	590.00	589.91	0.09	± 0.68 °C
Calibration Results of Measure Mode				
Calibration Results of 'K' Type (–200 to 1372 °C)				
Range	Input Given by Multi Product Calibrator In °C	Reading Observed by UUC In °C	Absolute Error In °C	± Expanded Uncertainty (K=2)
–200 °C to 1372 °C	–199.00	–199.06	0.06	± 0.50 °C
	200.00	199.96	0.04	± 0.50 °C
	400.00	399.96	0.04	± 0.50 °C
	500.00	499.94	0.06	± 0.50 °C
	800.00	799.92	0.08	± 0.50 °C
	1300.00	1299.92	0.08	± 0.50 °C

Traceable To National / International Standards.

Calibrated By

Yuvrajsinh Chavda

Reviewed & Approved By

Hitesh Limbachiya

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Date Of Receipt / Ref. No. → 13-06-2024		F/CR/E/001/05/1, Issue No.02 Page 10 of 13		
Details of Observation of Unit Under Calibration	Identification No. Serial No. Make / Model No. Name of Instrument	: NCQC/E-02 : 1694005 : Fluke/5500E : Multi-product Calibrator		
Calibration Results of 'J' Type (–210 to 1200 °C)				
Range	Input Given by Multi Product Calibrator In °C	Reading Observed by UUC In °C	Absolute Error In °C	± Expanded Uncertainty (K=2)
–210 °C to 1200 °C	–199.00	–198.98	0.02	± 0.37 °C
	0.00	–0.02	0.02	± 0.33 °C
	400.00	400.05	0.05	± 0.33 °C
	500.00	500.06	0.06	± 0.33 °C
	800.00	800.07	0.07	± 0.36 °C
	1190.00	1190.08	0.08	± 0.36 °C
Calibration Results of 'E' Type (–250 to 1000 °C)				
Range	Input Given by Multi Product Calibrator In °C	Reading Observed by UUC In °C	Absolute Error In °C	± Expanded Uncertainty (K=2)
–250 °C to 1000 °C	–199.00	–198.93	0.07	± 0.61 °C
	0.00	0.02	0.02	± 0.60 °C
	200.00	200.04	0.04	± 0.60 °C
	400.00	400.06	0.06	± 0.60 °C
	500.00	500.06	0.06	± 0.60 °C
	990.00	990.08	0.08	± 0.60 °C
Calibration Results of 'T' Type (–250 to 400 °C)				
Range	Input Given by Multi Product Calibrator In °C	Reading Observed by UUC In °C	Absolute Error In °C	± Expanded Uncertainty (K=2)
–250 °C to 400 °C	–199.00	–198.97	0.03	± 0.76 °C
	0.00	0.01	0.01	± 0.74 °C
	100.00	100.02	0.02	± 0.74 °C
	200.00	200.03	0.03	± 0.74 °C
	300.00	300.03	0.03	± 0.74 °C
	390.00	400.05	0.05	± 0.74 °C

Traceable To National / International Standards.

Calibrated By

Yuvrajsinh Chavda

Reviewed & Approved By

Hitesh Limbachiya

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	Date of Issue	15-06-2024
	Date of Calibration	13-06-2024
	Suggested Due Date	12-06-2025

Date Of Receipt / Ref. No. → 13-06-2024

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Details of Observation of Unit Under Calibration

Identification No.	: NCQC/E-02
Serial No.	: 1694005
Make / Model No.	: Fluke/5500E
Name of Instrument	: Multi-product Calibrator

Calibration Results of 'R' Type (0 to 1767 °C)

Range	Input Given by Multi Product Calibrator In °C	Reading Observed by UUC In °C	Absolute Error In °C	± Expanded Uncertainty (K=2)
0 °C to 1767 °C	200.00	199.95	0.05	± 0.70 °C
	600.00	600.04	0.04	± 0.70 °C
	800.00	800.06	0.04	± 0.70 °C
	1000.00	1000.08	0.08	± 0.70 °C
	1400.00	1399.93	0.07	± 0.70 °C
	1750.00	1749.92	0.08	± 0.70 °C

Calibration Results of 'B' Type (600 to 1820 °C)

Range	Input Given by Multi Product Calibrator In °C	Reading Observed by UUC In °C	Absolute Error In °C	± Expanded Uncertainty (K=2)
600 °C to 1820 °C	600.00	599.95	0.05	± 0.56 °C
	800.00	799.94	0.06	± 0.56 °C
	1000.00	999.93	0.07	± 0.53 °C
	1200.00	1199.91	0.09	± 0.53 °C
	1500.00	1499.89	0.11	± 0.53 °C
	1750.00	1749.87	0.13	± 0.53 °C

Calibration Results of 'S' Type (0 to 1767 °C)

Range	Input Given by Multi Product Calibrator In °C	Reading Observed by UUC In °C	Absolute Error In °C	± Expanded Uncertainty (K=2)
0 °C to 1767 °C	200.00	200.02	0.02	± 0.57 °C
	600.00	600.04	0.04	± 0.57 °C
	800.00	800.06	0.06	± 0.57 °C
	1000.00	1000.07	0.07	± 0.57 °C
	1400.00	1400.11	0.11	± 0.57 °C
	1750.00	1750.12	0.12	± 0.62 °C

Traceable To National / International Standards.

Calibrated By

Yuvrajsinh Chavda

Reviewed & Approved By

Hitesh Limbachiya

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Date Of Receipt / Ref. No. → 13-06-2024

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Details of Observation of Unit Under Calibration	Identification No.	: NCQC/E-02
	Serial No.	: 1694005
	Make / Model No.	: Fluke/5500E
	Name of Instrument	: Multi-product Calibrator

Calibration Results of 'N' Type (-200 to 1300 °C)

Range	Input Given by Multi Product Calibrator In °C	Reading Observed by UUC In °C	Absolute Error In °C	± Expanded Uncertainty (K=2)
-200 °C to 1300 °C	-199.00	-198.95	0.05	± 0.50 °C
	0.00	-0.01	0.01	± 0.50 °C
	200.00	200.03	0.03	± 0.50 °C
	500.00	500.04	0.04	± 0.50 °C
	600.00	599.97	0.03	± 0.50 °C
	1250.00	1249.93	0.07	± 0.50 °C

Calibration Results of 'L' Type (-200 to 900 °C)

Range	Input Given by Multi Product Calibrator In °C	Reading Observed by UUC In °C	Absolute Error In °C	± Expanded Uncertainty (K=2)
-200 °C to 900 °C	-199.00	-199.05	0.05	± 0.47 °C
	0.00	0.02	0.02	± 0.44 °C
	100.00	100.03	0.03	± 0.44 °C
	200.00	200.04	0.04	± 0.44 °C
	400.00	399.92	0.08	± 0.44 °C
	890.00	889.91	0.09	± 0.44 °C

Calibration Results of 'U' Type (-200 to 600 °C)

Range	Input Given by Multi Product Calibrator In °C	Reading Observed by UUC In °C	Absolute Error In °C	± Expanded Uncertainty (K=2)
-200 °C to 600 °C	-199.00	-198.96	0.04	± 0.68 °C
	0.00	-0.02	0.02	± 0.68 °C
	100.00	99.98	0.02	± 0.66 °C
	300.00	299.96	0.04	± 0.66 °C
	400.00	399.95	0.05	± 0.66 °C
	590.00	589.92	0.08	± 0.66 °C

Traceable To National / International Standards.

Calibrated By

Yuvrajsinh Chavda

Reviewed & Approved By

Hitesh Limbachiya

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Date Of Receipt / Ref. No. → 13-06-2024		F/CR/E/001/05/1, Issue No.02 Page 13 of 13	
Details of Observation of Unit Under Calibration	Identification No. Serial No. Make / Model No. Name of Instrument	: NCQC/E-02 : 1694005 : Fluke/5500E : Multi-product Calibrator	
Remarks: ↳ Acceptance Criteria: $\pm 0.1^\circ\text{F}$ or $\pm 0.05^\circ\text{C}$ or $\pm 0.015\%$ of Temperature Reading, Whichever is Greater. ↳ Instrument Calibration Pass/Fail : Pass ↳ No adjustments are made. ↳ As found and as left data are same. ↳ Correction and modification offset not used. ↳ No Limitation/Restriction of Calibration. ↳ Averages of minimum five readings are reported. ↳ These results are obtained at the time of calibration. ↳ Condition of instrument found satisfactory during receipt. ↳ The uncertainties are for a confidence probability of not less than 95% with coverage factor $k=2$. ↳ Any hand written corrections (except @) or photocopies of the report invalidates this certificate. ↳ Environment condition during calibration: $25 \pm 4^\circ\text{C}$, 30 to 75% Rh. ↳ Average temperature → 25.8°C and average humidity 45 % Rh during calibration of instruments. ↳ No external provider was used for calibration and hence it is not applicable. ↳ Result relates to the item calibrated only. ↳ Calibration certificate shall not be reproduced except in full without written approval of Director, NCQC. ↳ Location of Performance of Calibration → At Lab ↳ Reference calibration method no.: NCQC/CM/E/009, 014, 015, 016, 017 & 019. ↳ Reference standard no.: euramet cg_11 & 15. ↳ Our masters are directly calibrated through NABL accredited calibration lab having direct Traceability with national / international standard.			
Details of Master Instrument Used for Calibration			
Nomenclature	Make / Model	Id. No. / Sr. No.	Calibration Due Date
Multi-Product calibrator	Fluke / 5522 A	NCQC/E-01 / 3043901	13/03/2025
6 ½ Digital Multimeter	Fluke / 8846 A	NCQC/E-04/1086005	09/01/2025
NCQC System Certificate No.	Certificate No. & Traceability of Master with National Standards		
260	↳ Our master Fluke Multi – Product calibrator is calibrated & traceable to National Standard through NABL Accredited Laboratory. Fare Labs Pvt. Ltd., Certificate No. FL/C/ET/11032024-C004, Date - 11-03 to 13-03-2024.		
43	↳ Our master Digital Multimeter is calibrated and traceable to National Standard through NABL accredited Lab Godrej & Boyce. Certificate no. M-240109-1-1, Date – 09-01-2024		

Traceable To National / International Standards.

Calibrated By 	Yuvrajsinh Chavda	Reviewed & Approved By 	Hitesh Limbachiya
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