WORLD ONE INSTRUMENTS PVT. LTD.

Calibration Centre

CC-4040

ISO / IEC 17025 ACCREDITED CALIBRATION LABORATORY BY NABL VIDE CERTIFICATE NUMBER CC-4040

47, Ganapathi Nagar, Peenya Industrial Area, Bengaluru - 560 058.

Ph : 99000 99913 / 99000 99912 / 99000 32111 | Email: worldoneinstruments@gmail.com / info@wois.in | Website : www.wois.in

CALIBRATION CERTIFICATE

ULR-CC404025000009985F

Certificate No.:		WOI/250924-02		Page 1 of 10
SRF No.:	250924	Date of Issue:	22 March 2025	Field of Parameter
		Calibrated on:	20 March 2025	
		Calibration Due on:	19 March 2026	Electro-Technical

Name & Address of the Customer:

M/S World One Instruments Pvt Ltd,
47,Ganapathi Nagar ,
Peenya Industrial Area,
Bengaluru - 560 058

Status of the item on receipt	Satisfactory
Date of Receipt:	20 March 2025
Calibration Location:	WOI - LAB
Usage Location:	---

Description & Identification of Item (DUC) :

Nomenclature :	Multi Product Calibrator
Make :	Fluke
Model :	5500E
Serial No.:	2295002
ID No.:	WOI-ET-03

Reference Equipment used for Calibration :

Nomenclature	Serial No.	Certificate No.	Validity
Multi Product Calibrator	3817901	CR/PCAL/52804	16 May 2025
6 1/2 Digit Multimeter	2772009	CR/ECAL/52858	25 July 2025
LCR Meter	352C051G2	24-189-06	21 June 2025
Frequency Counter	584481	24-189-02	20 June 2025

Calibration Procedure:	WOI-ET-SOP-MVIR, WOI-ET-SOP-SVIR, WOI-ET-SOP-MTSim, WOI-ET-SOP-STSim	
Calibration Method:	By Direct Method	
Environmental Condition of Measurement:	Temperature: 25.1 °C	Relative Humidity: 52 %RH

Remarks:

1. The calibration results reported corresponds to the particular item mentioned above
2. This Certificate refers to the values obtained at the time of calibration and under the above stated conditions.
3. All Calibrations are done in SI units and are traceable to National/International standards as required in ISO/IEC/17025
4. Certificate shall not be reproduced except in full without the written approval of Laboratory.
5. The usage of NABL symbol is as per NABL guidelines NABL-133.
6. The reported uncertainty of measurement is stated as the standard uncertainty in measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability 95.45%.

Calibrated By	Checked By	Authorized Signatory
Rajesh A K	Manimaran K	Ramesha B
(Calibration Engineer)	(Technical Manager)	(MD)

WORLD ONE INSTRUMENTS PVT. LTD.

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CALIBRATION CERTIFICATE

Certificate No.: WOI/250924-02

Electrotechnical Calibration.

ULR-CC404025000009985F

Results: As per performance Verification :

Sl. No.	Range	DUC Setting	STD Reading	Error Claimed (±)	Deviation Observed	Measurement Uncertainty (±)
DC VOLTAGE						
1	329 mV	1 mV	1.0008 mV	0.00306 mV	-0.0008 mV	0.004100 mV
2		10 mV	10.0005 mV	0.00360 mV	-0.0005 mV	0.037345 mV
3		100 mV	100.0003 mV	0.00900 mV	-0.0003 mV	0.008000 mV
4		329 mV	0.329002 V	0.00002 V	-0.000002 V	0.000062 V
5		-1 mV	-1.0002 mV	0.00306 mV	0.0002 mV	0.004100 mV
6		-10 mV	-10.0006 mV	0.00360 mV	0.0006 mV	0.037345 mV
7		-100 mV	-100.0006 mV	0.00900 mV	0.0006 mV	0.008000 mV
8		-329 mV	-0.329004 V	0.00002 V	0.000004 V	0.000062 V
9	3.299999 V	3.29 V	3.28998 V	0.00017 V	0.00002 V	0.000132 V
10		-3.29 V	-3.28997 V	0.00017 V	-0.00003 V	0.000132 V
11	32.99999 V	32.9 V	32.8995 V	0.00170 V	0.0005 V	0.001422 V
12		-32.9 V	-32.8996 V	0.00170 V	-0.0004 V	0.001422 V
13	329.999 V	50 V	49.9994 V	0.00325 V	0.0006 V	0.002248 V
14		329 V	328.997 V	0.01860 V	0.003 V	0.017287 V
15		-50 V	-49.9998 V	0.00325 V	-0.0002 V	0.002248 V
16		-329 V	-328.996 V	0.01860 V	-0.004 V	0.017287 V
17	1020 V	334 V	333.997 V	0.01987 V	0.003 V	0.017578 V
18		1000 V	999.996 V	0.05650 V	0.004 V	0.060003 V
19		-334 V	-333.994 V	0.01987 V	-0.006 V	0.017578 V
20		-1000 V	-999.995 V	0.05650 V	-0.005 V	0.060003 V
DC CURRENT						
21	3.29999 mA	10 µA	10.0024 µA	0.05130 µA	-0.0024 µA	0.269000 µA
22		-10 µA	-10.0019 µA	0.05130 µA	0.0019 µA	0.269000 µA
23		100 µA	100.0035 µA	0.06300 µA	-0.0035 µA	0.090000 µA
24		-100 µA	-100.0028 µA	0.06300 µA	0.0028 µA	0.090000 µA
25		0.19 mA	0.190006 mA	0.0000747 mA	-0.000006 mA	0.000165 mA
26		-0.19 mA	-0.190004 mA	0.0000747 mA	0.000004 mA	0.000165 mA
27		1.9 mA	1.90006 mA	0.0002970 mA	-0.00006 mA	0.001140 mA
28		-1.9 mA	-1.90003 mA	0.0002970 mA	0.00003 mA	0.001140 mA
29		3.29 mA	3.28996 mA	0.000478 mA	0.00004 mA	0.001974 mA
30		-3.29 mA	-3.28995 mA	0.000478 mA	-0.00005 mA	0.001974 mA
31	32.9999 mA	19 mA	18.9992 mA	0.002150 mA	0.0008 mA	0.011400 mA
32		-19 mA	-18.9996 mA	0.002150 mA	-0.0004 mA	0.011400 mA
33		32.9 mA	32.8992 mA	0.00354 mA	0.0008 mA	0.019740 mA
34		-32.9 mA	-32.8998 mA	0.00354 mA	-0.0002 mA	0.019740 mA

Calibrated By

Rajesh A K
(Calibration Engineer)

Checked By

Manimaran K
(Technical Manager)

Authorized Signatory

Ramesha B
(MD)

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CALIBRATION CERTIFICATE

Certificate No.: WOI/250924-02

ULR-CC404025000009985F

Results Cont...

Sl. No.	Range	DUC Setting	STD Reading	Error Claimed (±)	Deviation Observed	Measurement Uncertainty (±)
35	329.999 mA	190 mA	189.998 mA	0.02230 mA	0.002 mA	0.117801 mA
36		-190 mA	-189.997 mA	0.02230 mA	-0.003 mA	0.117801 mA
37		329 mA	328.997 mA	0.03620 mA	0.003 mA	0.214143 mA
38		-329 mA	-328.996 mA	0.03620 mA	-0.004 mA	0.214143 mA
39	2.19999 A	2.19 A	2.18994 A	0.00070 A	0.00006 A	0.002042 A
40		-2.19 A	-2.18993 A	0.00070 A	-0.00007 A	0.002042 A
41	11 A	10 A	9.99997 A	0.00633 A	0.00003 A	0.018000 A
42		-10 A	-9.99996 A	0.00633 A	-0.00004 A	0.018000 A
AC VOLTAGE						
43	32.9999 mV	1mV @ 45Hz	0.9968 mV	0.0235 mV	0.0032 mV	0.047304 mV
44		1mV @ 10 kHz	0.9954 mV	0.0235 mV	0.0046 mV	0.047304 mV
45		1mV @ 20 kHz	0.9952 mV	0.0235 mV	0.0048 mV	0.047304 mV
46		10mV @ 45Hz	9.9987 mV	0.0550 mV	0.0013 mV	0.431091 mV
47		10mV @ 1kHz	9.9986 mV	0.0350 mV	0.0014 mV	0.431091 mV
48		10mV @ 10kHz	9.9994 mV	0.0350 mV	0.0006 mV	0.431091 mV
49		30mV @ 45Hz	29.9988 mV	0.1250 mV	0.0012 mV	1.013879 mV
50		30mV @ 1kHz	29.9982 mV	0.0650 mV	0.0018 mV	1.013879 mV
51		30mV @ 10kHz	29.9945 mV	0.0650 mV	0.0055 mV	1.013879 mV
52		30mV @ 20 kHz	29.9986 mV	0.0650 mV	0.0014 mV	1.111667 mV
53	329.999 mV	300mV @ 45Hz	0.299989 V	0.000800 V	0.000011 V	0.000360 V
54		300mV @ 1kHz	0.299991 V	0.000170 V	0.000009 V	0.000360 V
55		300mV @ 10kHz	0.299994 V	0.000170 V	0.000006 V	0.000360 V
56		300mV @ 20kHz	0.299998 V	0.000300 V	0.000002 V	0.000360 V
57	3.29999 V	3 V @ 45Hz	2.99994 V	0.00475 V	0.00006 V	0.003512 V
58		3 V @ 1kHz	2.99997 V	0.00006 V	0.00003 V	0.003512 V
59		3 V @ 10kHz	2.99985 V	0.00096 V	0.00015 V	0.003512 V
60		3 V @ 20kHz	2.99936 V	0.00246 V	0.00064 V	0.003512 V
61	32.9999 V	30 V @ 45Hz	30.0004 V	0.0475 V	-0.0004 V	0.032939 V
62		30 V @ 1kHz	29.9991 V	0.0126 V	0.0009 V	0.032939 V
63		30 V @ 10kHz	29.9989 V	0.0126 V	0.0011 V	0.032939 V
64		30 V @ 20kHz	29.9993 V	0.0266 V	0.0007 V	0.032939 V
65	329.999 V	300 V @ 45Hz	300.009 V	0.157 V	-0.009 V	0.321213 V
66		300 V @ 1kHz	300.008 V	0.157 V	-0.008 V	0.321213 V
67		300 V @ 10kHz	300.002 V	0.255 V	-0.002 V	0.321213 V
68	1020 V	1000 V @ 45Hz	1000.014 V	0.580 V	-0.014 V	1.000017 V
69		1000 V @ 1kHz	1000.019 V	0.580 V	-0.019 V	1.000017 V
70		1000 V @ 5kHz	1000.017 V	2.100 V	-0.017 V	1.000017 V
71		1000 V @ 10kHz	1000.013 V	2.500 V	-0.013 V	1.000017 V

Calibrated By

Rajesh A K

(Calibration Engineer)

Checked By

Manimaran K

(Technical Manager)

Authorized Signatory

Ramesha B

(MD)

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Results Cont....

ULR-CC404025000009985F

Sl. No.	Range	DUC Setting	STD Reading	Error Claimed (±)	Deviation Observed	Measurement Uncertainty (±)
AC Current						
72	0.029 mA to 0.32999 mA	30µA @ 50Hz	30.0061 µA	0.2875 µA	-0.0061 µA	0.226727 µA
73		30µA @ 1kHz	30.0063 µA	0.2875 µA	-0.0063 µA	0.226727 µA
74		190µA @ 50Hz	0.190006 mA	0.000238 mA	-0.000006 mA	0.005793 mA
75		190µA @ 1kHz	0.190009 mA	0.000238 mA	-0.000009 mA	0.005793 mA
76		329µA @ 50Hz	0.329009 mA	0.000412 mA	-0.000009 mA	0.005832 mA
77		329µA @ 1kHz	0.329011 mA	0.000412 mA	-0.000011 mA	0.005832 mA
78	3.2999 mA	0.33mA @ 50Hz	0.330016 mA	0.000630 mA	-0.000016 mA	0.000825 mA
79		0.33mA @ 1kHz	0.330019 mA	0.000630 mA	-0.000019 mA	0.000825 mA
80		1.9mA @ 50Hz	1.89993 mA	0.002200 mA	0.00007 mA	0.004750 mA
81		1.9mA @ 1kHz	1.89991 mA	0.002200 mA	0.00009 mA	0.004750 mA
82		3.29mA @ 50Hz	3.28998 mA	0.00359 mA	0.00002 mA	0.008225 mA
83		3.29mA @ 1kHz	3.28976 mA	0.00359 mA	0.00024 mA	0.008225 mA
84	32.999 mA	3.3 mA @ 1kHz	3.29985 mA	0.0060 mA	0.00015 mA	0.008250 mA
85		19 mA @ 1kHz	18.9994 mA	0.0201 mA	0.0006 mA	0.045980 mA
86		32.9 mA @ 50Hz	32.8972 mA	0.0326 mA	0.0028 mA	0.075554 mA
87		32.9 mA @ 1kHz	32.8983 mA	0.0326 mA	0.0017 mA	0.075554 mA
88	329.99 mA	33 mA @ 50Hz	33.0004 mA	0.0597 mA	-0.0004 mA	0.075755 mA
89		33 mA @ 1kHz	33.0003 mA	0.0597 mA	-0.0003 mA	0.075755 mA
90		190 mA @ 1kHz	190.006 mA	0.2010 mA	-0.006 mA	0.334701 mA
91		329 mA @ 50Hz	328.978 mA	0.359 mA	0.022 mA	0.610844 mA
92		329 mA @ 1kHz	329.006 mA	0.326 mA	-0.006 mA	0.610851 mA
93	2.19999 A	0.33 A @ 50Hz	330.009 mA	0.330300 mA	-0.009 mA	0.612934 mA
94		0.33 A @ 1kHz	330.016 mA	0.330300 mA	-0.016 mA	0.612935 mA
95		2.19 A @ 45Hz	2.19022 A	0.00468 A	-0.00022 A	0.006544 A
96		2.19 A @ 1kHz	2.19012 A	0.00249 A	-0.00012 A	0.006544 A
97	11 A	2.2 A @ 50Hz	2.20009 A	0.00420 A	-0.00009 A	0.006572 A
98		2.2 A @ 1kHz	2.20005 A	0.00926 A	-0.00005 A	0.006572 A
99		10 A @ 50Hz	10.00002 A	0.00800 A	-0.00002 A	0.025000 A
100		10 A @ 500Hz	10.00004 A	0.01200 A	-0.00004 A	0.025000 A
101		10 A @ 1kHz	10.00006 A	0.03500 A	-0.00006 A	0.025000 A

Calibrated By

Rajesh A K

(Calibration Engineer)

Checked By

Manimaran K

(Technical Manager)

Authorized Signatory

Ramesha B

(MD)

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CALIBRATION CERTIFICATE

Certificate No.: WOI/250924-02

Results Cont... ULR-CC404025000009985F

Sl. No.	Range	DUC Setting	STD Reading	Error Claimed (±)	Deviation Observed	Measurement Uncertainty (±)
RESISTANCE						
102	10.99 Ω	1 Ω	0.99989 Ω	0.00812 Ω	0.00011 Ω	0.004041 Ω
103		10 Ω	9.99985 Ω	0.00920 Ω	0.00015 Ω	0.005034 Ω
104		10.9 Ω	10.8997 Ω	0.00931 Ω	0.0003 Ω	0.005444 Ω
105	32.999 Ω	11.9 Ω	11.9002 Ω	0.01643 Ω	-0.0002 Ω	0.005893 Ω
106		19 Ω	18.9998 Ω	0.01728 Ω	0.0002 Ω	0.008873 Ω
107		30 Ω	30.0002 Ω	0.01860 Ω	-0.0002 Ω	0.012746 Ω
108	109.999 Ω	33 Ω	33.0003 Ω	0.01797 Ω	-0.0003 Ω	0.013645 Ω
109		109 Ω	0.109004 kΩ	0.00002 kΩ	-0.000004 kΩ	0.000578 kΩ
110	329.999 Ω	119 Ω	0.119009 kΩ	0.000026 kΩ	-0.000009 kΩ	0.000578 kΩ
111		190 Ω	0.190015 kΩ	0.000032 kΩ	-0.000015 kΩ	0.000578 kΩ
112		300 Ω	0.300041 kΩ	0.00004 kΩ	-0.000041 kΩ	0.000579 kΩ
113	1.09999 kΩ	0.33 kΩ	0.330004 kΩ	0.00008970 kΩ	-0.000004 kΩ	0.000051 kΩ
114		1.09 kΩ	1.09012 kΩ	0.00015810 kΩ	-0.00012 kΩ	0.000142 kΩ
115	3.29999 kΩ	1.19 kΩ	1.19007 kΩ	0.00016710 kΩ	-0.00007 kΩ	0.000155 kΩ
116		1.9 kΩ	1.90006 kΩ	0.00023100 kΩ	-0.00006 kΩ	0.000247 kΩ
117		3 kΩ	3.00005 kΩ	0.0003300 kΩ	-0.00005 kΩ	0.000390 kΩ
118	10.9999 kΩ	3.3 kΩ	3.30004 kΩ	0.0008970 kΩ	-0.00004 kΩ	0.000429 kΩ
119		10.9 kΩ	10.9009 kΩ	0.0015810 kΩ	-0.0009 kΩ	0.001417 kΩ
120	32.9999 kΩ	11.9 kΩ	11.9003 kΩ	0.0016710 kΩ	-0.0003 kΩ	0.001547 kΩ
121		19 kΩ	19.0002 kΩ	0.0023100 kΩ	-0.0002 kΩ	0.002470 kΩ
122		30 kΩ	30.0005 kΩ	0.003300 kΩ	-0.0005 kΩ	0.003900 kΩ
123	109.999 kΩ	33 kΩ	33.0008 kΩ	0.009630 kΩ	-0.0008 kΩ	0.004329 kΩ
124		109 kΩ	0.109006 MΩ	0.000018 MΩ	-0.000006 MΩ	0.000014 MΩ
125	329.999 kΩ	119 kΩ	0.119008 MΩ	0.000020 MΩ	-0.000008 MΩ	0.000015 MΩ
126		190 kΩ	0.190012 MΩ	0.000029 MΩ	-0.000012 MΩ	0.000025 MΩ
127		300 kΩ	0.300009 MΩ	0.000042 MΩ	-0.000009 MΩ	0.000579 MΩ
128	1.09999 MΩ	0.33 MΩ	0.330021 MΩ	0.000105 MΩ	-0.000021 MΩ	0.000043 MΩ
129		1.09 MΩ	1.09006 MΩ	0.000219 MΩ	-0.00006 MΩ	0.000146 MΩ
130	3.29999 MΩ	1.19 MΩ	1.19009 MΩ	0.000234 MΩ	-0.00009 MΩ	0.000164 MΩ
131		1.9 MΩ	1.90002 MΩ	0.000340 MΩ	-0.00002 MΩ	0.000317 MΩ
132		3 MΩ	3.00007 MΩ	0.000505 MΩ	-0.00007 MΩ	0.000637 MΩ
133	10.9999 MΩ	3.3 MΩ	3.30003 MΩ	0.002530 MΩ	-0.00003 MΩ	0.000743 MΩ
134		10.9 MΩ	10.9001 MΩ	0.007090 MΩ	-0.0001 MΩ	0.006420 MΩ

Calibrated By
Rajesh A K
(Calibration Engineer)

Checked By
Manimaran K
(Technical Manager)

Authorized Signatory
Ramesha B
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Results Cont...

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Sl. No.	Range	DUC Setting	STD Reading	Error Claimed (±)	Deviation Observed	Measurement Uncertainty (±)
135	32.9999 MΩ	11.9 MΩ	11.9006 MΩ	0.012450 MΩ	-0.0006 MΩ	0.008187 MΩ
136		19 MΩ	19.0003 MΩ	0.019550 MΩ	-0.0003 MΩ	0.026411 MΩ
137		30 MΩ	30.0002 MΩ	0.030550 MΩ	-0.0002 MΩ	0.074334 MΩ
138	109.999 MΩ	33 MΩ	33.0005 MΩ	0.170500 MΩ	-0.0005 MΩ	0.091560 MΩ
139		109 MΩ	109.006 MΩ	0.55050 MΩ	-0.006 MΩ	1.039652 MΩ
140	330 MΩ	119 MΩ	119.003 MΩ	0.61150 MΩ	-0.003 MΩ	1.153274 MΩ
141		300 MΩ	300.001 MΩ	1.51650 MΩ	-0.001 MΩ	3.740005 MΩ
CAPACITANCE @ 1kHz						
142	0.4999 nF	0.35 nF	350.19 pF	11.75 pF	-0.19 pF	0.334028 pF
143		0.48 nF	480.43 pF	12.40 pF	-0.43 pF	0.454880 pF
144	1.0999 nF	0.6 nF	600.39 pF	13.00 pF	-0.39 pF	0.566949 pF
145		1.0 nF	1.0031 nF	0.015 nF	-0.0031 nF	0.000942 nF
146	3.2999 nF	1.2 nF	1.2016 nF	0.02 nF	-0.0016 nF	0.001129 nF
147		3.0 nF	3.0063 nF	0.03 nF	-0.0063 nF	0.002821 nF
148	10.999 nF	3.3 nF	3.3011 nF	0.03 nF	-0.0011 nF	0.003155 nF
149		10.9 nF	10.908 nF	0.06 nF	-0.008 nF	0.010263 nF
150	32.999 nF	12 nF	12.100 nF	0.1 nF	-0.100 nF	0.011295 nF
151		30 nF	30.100 nF	0.2 nF	-0.100 nF	0.028210 nF
152	109.99 nF	33 nF	33.010 nF	0.2 nF	-0.010 nF	0.031548 nF
153		109 nF	109.20 nF	0.4 nF	-0.20 nF	0.102677 nF
154	329.99 nF	120 nF	120.20 nF	0.6 nF	-0.20 nF	0.113014 nF
155		300 nF	300.30 nF	1.1 nF	-0.30 nF	0.282473 nF
156	1.0999 µF	0.33 µF	330.12 nF	1.825 nF	-0.12 nF	0.310701 nF
157		1 µF	1.0002 µF	0.004 µF	-0.0002 µF	0.000946 µF
158		1.09 µF	1.0907 µF	0.004 µF	-0.0007 µF	0.001032 µF
159	3.2999 µF	1.2 µF	1.2006 µF	0.01 µF	-0.0006 µF	0.001136 µF
160		3 µF	3.0006 µF	0.01 µF	-0.0006 µF	0.002862 µF
161	10.999 µF	3.3 µF	3.3000 µF	0.02 µF	0.0000 µF	0.003205 µF
162		10.9 µF	10.901 µF	0.05 µF	-0.001 µF	0.010808 µF
163	32.999 µF	12 µF	12.002 µF	0.1 µF	-0.002 µF	0.011956 µF
164		30 µF	30.104 µF	0.2 µF	-0.104 µF	0.032359 µF
165	109.99 µF	33 µF	33.102 µF	0.3 µF	-0.102 µF	0.036504 µF
166		109 µF	109.06 µF	1 µF	-0.06 µF	0.174496 µF

Calibrated By

Rajesh A K

(Calibration Engineer)

Checked By

Manimaran K

(Technical Manager)

Authorized Signatory

Ramesha B

(MD)

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Calibration Centre CC-4040

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CALIBRATION CERTIFICATE

Certificate No.: WOI/250924-02

Results Cont... ULR-CC404025000009985F

Sl. No.	Range	DUC Setting	STD Reading	Error Claimed (±)	Deviation Observed	Measurement Uncertainty (±)
167	329.99 µF	120 µF	120.09 µF	1.140 µF	-0.09 µF	0.192087 µF
168		300 µF	300.06 µF	2.400 µF	-0.06 µF	0.480035 µF
169	1.1 mF	0.33 mF	330.09 µF	3.300 µF	-0.09 µF	0.528000 µF
170		1.1 mF	1.1020 mF	0.011 mF	-0.0020 mF	0.001761 mF
FREQUENCY @ 1 V						
171	119.99 Hz	1 Hz	0.9999998 Hz	0.001025000 Hz	0.0000002 Hz	0.005774 Hz
172		10 Hz	9.999997 Hz	0.001250000 Hz	0.000003 Hz	0.005774 Hz
173		100 Hz	99.99998 Hz	0.00350000 Hz	0.00002 Hz	0.005775 Hz
174	1199.9 Hz	1 kHz	999.9999 Hz	0.026000000 Hz	0.0001 Hz	0.057750 Hz
175	11.999 kHz	10 kHz	9.999996 kHz	0.000251000 kHz	0.000004 kHz	0.000577 kHz
176	119.99 kHz	100 kHz	99.99999 kHz	0.00251500 kHz	0.00001 kHz	0.005775 kHz
177	1199.9 kHz	1 MHz	0.9999996 MHz	0.000025015 MHz	0.0000004 MHz	0.000058 MHz
178	2 MHz	2 MHz	1.9999998 MHz	0.000050015 MHz	0.0000002 MHz	0.000577 MHz
THERMOCOUPLE SOURCING						
179	B	600 °C	599.96 °C	0.44 °C	0.04 °C	0.36 °C
180		900 °C	899.94 °C	0.34 °C	0.06 °C	0.36 °C
181		1100 °C	1099.98 °C	0.30 °C	0.02 °C	0.36 °C
182		1300 °C	1299.99 °C	0.30 °C	0.01 °C	0.36 °C
183		1800 °C	1799.96 °C	0.33 °C	0.04 °C	0.36 °C
184	C	100 °C	99.98 °C	0.30 °C	0.02 °C	0.66 °C
185		1000 °C	999.99 °C	0.31 °C	0.01 °C	0.66 °C
186		1800 °C	1799.97 °C	0.50 °C	0.03 °C	0.66 °C
187		2300 °C	2300.21 °C	0.84 °C	-0.21 °C	0.66 °C
188	E	-250 °C	-249.98 °C	0.38 °C	-0.02 °C	0.40 °C
189		-25 °C	-24.96 °C	0.50 °C	-0.04 °C	0.40 °C
190		350 °C	349.99 °C	0.16 °C	0.01 °C	0.40 °C
191		650 °C	649.96 °C	0.21 °C	0.04 °C	0.40 °C
192		1000 °C	999.98 °C	0.21 °C	0.02 °C	0.40 °C
193	J	-200 °C	-199.99 °C	0.27 °C	-0.01 °C	0.22 °C
194		-100 °C	-99.97 °C	0.16 °C	-0.03 °C	0.22 °C
195		100 °C	99.94 °C	0.14 °C	0.06 °C	0.22 °C
196		500 °C	499.96 °C	0.17 °C	0.04 °C	0.22 °C
197		1200 °C	1199.98 °C	0.23 °C	0.02 °C	0.22 °C

Calibrated By

Rajesh A K
(Calibration Engineer)

Checked By

Manimaran K
(Technical Manager)

Authorized Signatory

Ramesha B
(MD)

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Sl. No.	TYPE	DUC Setting	STD Reading	Error Claimed (±)	Deviation Observed	Measurement Uncertainty (±)
198	K	-200 °C	-199.99 °C	0.33 °C	-0.01 °C	0.32 °C
199		-100 °C	-99.96 °C	0.18 °C	-0.04 °C	0.32 °C
200		100 °C	99.97 °C	0.16 °C	0.03 °C	0.32 °C
201		500 °C	499.98 °C	0.26 °C	0.02 °C	0.32 °C
202		1370 °C	1369.99 °C	0.40 °C	0.01 °C	0.32 °C
203	L	-200 °C	-199.94 °C	0.37 °C	-0.06 °C	0.32 °C
204		-100 °C	-99.98 °C	0.26 °C	-0.02 °C	0.32 °C
205		800 °C	799.96 °C	0.17 °C	0.04 °C	0.32 °C
206		900 °C	899.97 °C	0.17 °C	0.03 °C	0.32 °C
207	N	-200 °C	-199.96 °C	0.40 °C	-0.04 °C	0.32 °C
208		-50 °C	-49.98 °C	0.22 °C	-0.02 °C	0.32 °C
209		100 °C	99.99 °C	0.19 °C	0.01 °C	0.32 °C
210		500 °C	499.97 °C	0.27 °C	0.03 °C	0.32 °C
211		1300 °C	1299.96 °C	0.27 °C	0.04 °C	0.32 °C
212	R	100 °C	99.98 °C	0.57 °C	0.02 °C	0.45 °C
213		500 °C	499.98 °C	0.33 °C	0.02 °C	0.45 °C
214		1000 °C	999.98 °C	0.40 °C	0.02 °C	0.45 °C
215		1700 °C	1699.96 °C	0.40 °C	0.04 °C	0.45 °C
216	S	100 °C	99.96 °C	0.47 °C	0.04 °C	0.16 °C
217		500 °C	499.98 °C	0.36 °C	0.02 °C	0.16 °C
218		1200 °C	1199.99 °C	0.37 °C	0.01 °C	0.16 °C
219		1760 °C	1759.97 °C	0.46 °C	0.03 °C	0.16 °C
220	T	-250 °C	-249.98 °C	0.63 °C	-0.02 °C	0.50 °C
221		-100 °C	-99.99 °C	0.24 °C	-0.01 °C	0.50 °C
222		100 °C	99.96 °C	0.16 °C	0.04 °C	0.50 °C
223		200 °C	199.97 °C	0.14 °C	0.03 °C	0.50 °C
224		400 °C	399.99 °C	0.14 °C	0.01 °C	0.50 °C
225	U	-200 °C	-199.94 °C	0.56 °C	-0.06 °C	0.46 °C
226		100 °C	99.99 °C	0.27 °C	0.01 °C	0.46 °C
227		300 °C	299.98 °C	0.27 °C	0.02 °C	0.46 °C
228		600 °C	599.99 °C	0.27 °C	0.01 °C	0.46 °C

Calibrated By

Rajesh A K

(Calibration Engineer)

Checked By

Manimaran K

(Technical Manager)

Authorized Signatory

Ramesha B S

(MD)

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Results Cont...

Sl. No.	TYPE	STD Input	DUC Reading	Error Claimed (±)	Deviation Observed	Measurement Uncertainty (±)
THERMOCOUPLE MEASURING						
229	B	600 °C	599.99 °C	0.44 °C	-0.01 °C	0.35 °C
230		900 °C	899.96 °C	0.34 °C	-0.04 °C	0.35 °C
231		1100 °C	1099.97 °C	0.30 °C	-0.03 °C	0.35 °C
232		1300 °C	1299.98 °C	0.30 °C	-0.02 °C	0.35 °C
233		1800 °C	1799.99 °C	0.33 °C	-0.01 °C	0.35 °C
234	C	100 °C	99.99 °C	0.30 °C	-0.01 °C	0.66 °C
235		1000 °C	999.98 °C	0.31 °C	-0.02 °C	0.66 °C
236		1800 °C	1799.99 °C	0.50 °C	-0.01 °C	0.66 °C
237		2300 °C	2299.95 °C	0.84 °C	-0.05 °C	0.66 °C
238	E	-250 °C	-249.97 °C	0.38 °C	0.03 °C	0.40 °C
239		-25 °C	-24.99 °C	0.50 °C	0.01 °C	0.40 °C
240		350 °C	349.97 °C	0.16 °C	-0.03 °C	0.40 °C
241		650 °C	649.99 °C	0.21 °C	-0.01 °C	0.40 °C
242		1000 °C	999.98 °C	0.21 °C	-0.02 °C	0.40 °C
243	J	-210 °C	-209.96 °C	0.27 °C	0.04 °C	0.22 °C
244		-100 °C	-99.97 °C	0.16 °C	0.03 °C	0.22 °C
245		100 °C	99.94 °C	0.14 °C	-0.06 °C	0.22 °C
246		500 °C	499.99 °C	0.17 °C	-0.01 °C	0.22 °C
247		1200 °C	1199.96 °C	0.23 °C	-0.04 °C	0.22 °C
248	K	-200 °C	-199.97 °C	0.33 °C	0.03 °C	0.32 °C
249		-100 °C	-99.97 °C	0.18 °C	0.03 °C	0.32 °C
250		100 °C	99.99 °C	0.16 °C	-0.01 °C	0.32 °C
251		500 °C	499.98 °C	0.26 °C	-0.02 °C	0.32 °C
252		1350 °C	1349.96 °C	0.40 °C	-0.04 °C	0.32 °C
253	L	-200 °C	-199.98 °C	0.37 °C	0.02 °C	0.29 °C
254		-100 °C	-99.97 °C	0.26 °C	0.03 °C	0.29 °C
255		800 °C	799.96 °C	0.17 °C	-0.04 °C	0.29 °C
256		900 °C	899.99 °C	0.17 °C	-0.01 °C	0.29 °C

Calibrated By

Rajesh A K

(Calibration Engineer)

Checked By

Manimaran K

(Technical Manager)

Authorized Signatory

Ramesha B

(MD)

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Results Cont...

Sl. No.	TYPE	STD Input	DUC Reading	Error Claimed (±)	Deviation Observed	Measurement Uncertainty (±)
257	N	-200 °C	-199.99 °C	0.40 °C	0.01 °C	0.32 °C
258		-50 °C	-49.96 °C	0.22 °C	0.04 °C	0.32 °C
259		100 °C	99.97 °C	0.19 °C	-0.03 °C	0.32 °C
260		500 °C	499.96 °C	0.27 °C	-0.04 °C	0.32 °C
261		1300 °C	1299.97 °C	0.27 °C	-0.03 °C	0.32 °C
262	R	100 °C	99.96 °C	0.57 °C	-0.04 °C	0.45 °C
263		500 °C	499.94 °C	0.33 °C	-0.06 °C	0.45 °C
264		1000 °C	999.96 °C	0.40 °C	-0.04 °C	0.45 °C
265		1750 °C	1749.99 °C	0.40 °C	-0.01 °C	0.45 °C
266	S	100 °C	99.99 °C	0.47 °C	-0.01 °C	0.16 °C
267		500 °C	499.96 °C	0.36 °C	-0.04 °C	0.16 °C
268		1200 °C	1199.97 °C	0.37 °C	-0.03 °C	0.16 °C
269		1750 °C	1749.98 °C	0.46 °C	-0.02 °C	0.16 °C
270	T	-250 °C	-249.99 °C	0.63 °C	0.01 °C	0.50 °C
271		-100 °C	-99.99 °C	0.24 °C	0.01 °C	0.50 °C
272		100 °C	99.96 °C	0.16 °C	-0.04 °C	0.50 °C
273		200 °C	199.97 °C	0.14 °C	-0.03 °C	0.50 °C
274		400 °C	399.99 °C	0.14 °C	-0.01 °C	0.50 °C
275	U	-200 °C	-199.96 °C	0.56 °C	0.04 °C	0.44 °C
276		100 °C	99.93 °C	0.27 °C	-0.07 °C	0.44 °C
277		300 °C	299.99 °C	0.27 °C	-0.01 °C	0.44 °C
278		600 °C	599.97 °C	0.27 °C	-0.03 °C	0.44 °C
RTD SOURCING						
279	PT100 385	-200 °C	-199.97 °C	0.05 °C	0.03 °C	0.18 °C
280		0 °C	0.00 °C	0.07 °C	0.00 °C	0.18 °C
305		600 °C	599.96 °C	0.23 °C	-0.04 °C	0.18 °C

Calibrated By

Rajesh A K
(Calibration Engineer)

Checked By

Manimaran K
(Technical Manager)

Authorized Signatory

Ramesha B
(MD)

***** End Of Certificate *****