



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : SHIVRAJ CALIBRATION AND TECHNICAL SERVICES LLP, 346/1, NEW COLONY,
HINDALAGA, BELGAVI, BELGAUM, KARNATAKA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number NABLC0726KA04816 **Page No** 1 of 39

Validity 12/06/2026 to 11/06/2030 **Last Amended on** 02/07/2026

S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
Permanent Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit DMM by Direct Method	1 A to 10 A	0.23 % to 0.25 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit DMM by Direct Method	1 mA to 10 mA	0.25 % to 0.47 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit DMM by Direct Method	10 mA to 100 mA	0.47 % to 0.31 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit DMM by Direct Method	100 mA to 1 A	0.31 % to 0.23 %



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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using HV Probe & DMM by Direct Method	1 kV to 10 kV	6.03 % to 1.84 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit DMM by Direct Method	1 V to 1000 V	0.11 % to 0.15 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit DMM by Direct Method	10 mV to 100 mV	0.53 % to 0.13 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit DMM by Direct Method	100 mV to 1 V	0.13 % to 0.11 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multi Function Calibrator by Direct Method	1 A to 10 A	0.71 % to 1.88 %



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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multi Function Calibrator by Direct Method	1 mA to 10 mA	1.12 % to 0.45 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multi Function Calibrator with 100 turns Current Coil by Direct Method	10 A to 1000 A	1.7 % to 0.96 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multi Function Calibrator by Direct Method	10 mA to 100 mA	0.45 % to 0.44 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multi Function Calibrator by Direct Method	100 mA to 1 A	0.44 % to 0.71 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Multi Function Calibrator by Direct Method	1 V to 1000 V	0.24 % to 0.19 %
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Multi Function Calibrator by Direct Method	10 mV to 100 mV	0.35 % to 0.13 %



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16	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Multi Function Calibrator by Direct Method	100 mV to 1 V	0.13 % to 0.24 %
17	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit DMM by Direct Method	1 A to 10 A	0.09 % to 0.19 %
18	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit DMM by Direct Method	1 mA to 24 mA	0.06 % to 0.15 %
19	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit DMM by Direct Method	100 mA to 1 A	0.06 % to 0.09 %
20	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit DMM by Direct Method	24 mA to 100 mA	0.15 % to 0.06 %
21	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC High Voltage	Using HV Probe & DMM by Direct Method	1 kV to 10 kV	6.03 % to 1.83 %



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22	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit DMM by Direct Method	1 mV to 100 mV	0.42 % to 0.009 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit DMM by Direct Method	1 V to 100 V	0.081 % to 0.006 %
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit DMM by Direct Method	100 mV to 1 V	0.009 % to 0.081 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit DMM by Direct Method	100 V to 1000 V	0.006 % to 0.016 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 6½ Digit DMM by Direct Method	1 Mohm to 10 Mohm	0.012 % to 0.047 %
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 6½ Digit DMM by Direct Method	10 Mohm to 1000 Mohm	0.047 % to 0.33 %



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28	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 6½ Digit DMM by Direct Method	100 kohm to 1 Mohm	0.014 % to 0.012 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 Wire)	Using 6½ Digit DMM by Direct Method	> 1 kohm to 10 kohm	0.01 % to 0.013 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 Wire)	Using 6½ Digit DMM by Direct Method	1 ohm to 100 ohm	0.36 % to 0.016 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 Wire)	Using 6½ Digit DMM by Direct Method	10 kohm to 100 kohm	0.013 % to 0.014 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 Wire)	Using 6½ Digit DMM by Direct Method	100 ohm to 1 kohm	0.016 % to 0.36 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Precision Process Calibrator by Direct Method	1 mV to 10 mV	1.45 % to 0.06 %



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34	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Precision Process Calibrator by Direct Method	1 V to 10 V	0.58 % to 0.06 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Precision Process Calibrator by Direct Method	10 mV to 100 mV	0.06 % to 0.01 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Precision Process Calibrator by Direct Method	10 V to 100 V	0.06 % to 0.01 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Precision Process Calibrator by Direct Method	100 mV to 1 V	0.01 % to 0.58 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Function Calibrator Direct Method	100 V to 1000 V	0.01 % to 0.14 %
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Direct Current	Using Multi Function Calibrator by Direct Method	1 A to 10 A	0.63 % to 0.24 %



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40	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Direct Current	Using Multi Function Calibrator by Direct Method	1 mA to 10 mA	0.6 % to 0.16 %
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Direct Current	Using Multi Function Calibrator with 100 turns Current Coil by Direct Method	10 A to 1000 A	0.25 % to 1 %
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Direct Current	Using Multi Function Calibrator by Direct Method	10 mA to 100 mA	0.16 % to 0.15 %
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Direct Current	Using Multi Function Calibrator by Direct Method	100 mA to 1 A	0.15 % to 0.63 %
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using Decade Resistance Box by Direct Method	1 Mohm to 100 Mohm	0.59 % to 1.15 %
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using Decade Resistance Box by Direct Method	100 kohm to 1 Mohm	0.59 %



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46	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using Decade Resistance Box by Direct Method	100 Mohm to 1000 Mohm	1.15 % to 1.35 %
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using Decade Resistance Box by Direct Method	1 kohm to 100 kohm	1.29 % to 0.59 %
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using Decade Resistance Box by Direct Method	1 ohm to 100 ohm	0.63 % to 0.58 %
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using Decade Resistance Box by Direct Method	100 ohm to 1 kohm	0.58 % to 1.29 %
50	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E - Type Thermocouple	Using Precision Process Calibrator by Direct Method	(-) 100 °C to 1000 °C	0.34 °C
51	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	B - Type Thermocouple	Using Precision Process Calibrator by Direct Method	600 °C to 1550 °C	1.77 °C



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52	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J - Type Thermocouple	Using Precision Process Calibrator by Direct Method	(-) 200 °C to 1200 °C	0.23 °C
53	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K - Type Thermocouple	Using Precision Process Calibrator by Direct Method	(-) 190 °C to 1300 °C	0.26 °C
54	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N - Type Thermocouple	Using Precision Process Calibrator by Direct Method	(-) 190 °C to 1300 °C	0.3 °C
55	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R - Type Thermocouple	Using Precision Process Calibrator by Direct Method	0 °C to 1750 °C	0.56 °C
56	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (PT 100)	Using Precision Process Calibrator by Direct Method	(-) 200 °C to 800 °C	0.11 °C
57	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S - Type Thermocouple	Using Precision Process Calibrator by Direct Method	0 °C to 1700 °C	0.58 °C



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58	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B - Type Thermocouple	Using Precision Process Calibrator by Direct Method	600 °C to 1550 °C	0.35 °C
59	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E - Type Thermocouple	Using Precision Process Calibrator by Direct Method	(-) 100 °C to 1000 °C	0.19 °C
60	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J - Type Thermocouple	Using Precision Process Calibrator by Direct Method	(-) 200 °C to 1200 °C	0.18 °C
61	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K - Type Thermocouple	Using Precision Process Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.2 °C
62	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N - Type Thermocouple	Using Precision Process Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.2 °C
63	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R - Type Thermocouple	Using Precision Process Calibrator by Direct Method	0 °C to 1700 °C	0.32 °C



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64	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT 100)	Using Precision Process Calibrator by Direct Method	(-) 200 °C to 800 °C	0.09 °C
65	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S - Type Thermocouple	Using Precision Process Calibrator by Direct Method	0 °C to 1700 °C	0.47 °C
66	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit DMM by Direct Method	10 Hz to 50 kHz	0.03 %
67	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Interval Meter by Comparison Method	3600 s to 86400 s	0.64 s to 5.26 s
68	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Interval Meter by Comparison Method	4 s to 60 s	0.38 s to 0.42 s
69	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Interval Meter by Comparison Method	60 s to 3600 s	0.42 s to 0.64 s



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70	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Function Calibrator by Direct Method	50 Hz to 50 kHz	0.03 % to 1 %
71	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Contact Type	Using Digital Tachometer with Tachometer Calibrator by Comparison Method	> 100 rpm to 1000 rpm	2.1 %
72	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Contact Type	Using Digital Tachometer with Tachometer Calibrator by Comparison Method	> 1000 rpm to 6000 rpm	0.36 %
73	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Contact Type	Using Digital Tachometer with Tachometer Calibrator by Comparison Method	6 rpm to 100 rpm	4 %
74	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Non Contact Type	Using Digital Tachometer with Tachometer Calibrator by Comparison Method	> 100 rpm to 1000 rpm	1.94 %
75	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Non Contact Type	Using Digital Tachometer with Tachometer Calibrator by Comparison Method	> 1000 rpm to 10000 rpm	0.36 %



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76	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Non Contact Type	Using Digital Tachometer with Tachometer Calibrator by Comparison Method	> 10000 rpm to 90000 rpm	0.06 %
77	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Non Contact Type	Using Digital Tachometer with Tachometer Calibrator by Comparison Method	6 rpm to 100 rpm	3.82 %
78	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure: Pressure Gauge (Dial/Digital), Pressure Transmitter with Indicator	Using Pressure Calibrator and Hydraulic Comparator Pump by Comparison Method as per DKD-R 6-1	0 to 400 bar	0.28 bar
79	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure: Pressure Gauge (Dial/Digital), Pressure Transmitter with Indicator	Using Pressure Calibrator and Hydraulic Comparator Pump by Comparison Method as per DKD-R 6-1	0 to 700 bar	0.62 bar
80	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure: Pressure Gauge (Dial/Digital), Pressure Transmitter with Indicator	Using Portable Pressure Calibrator by Comparison Method as per DKD-R 6-1	0 to 20 bar	0.016 bar



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81	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure: Vacuum Gauge (Dial/Digital), Pressure Transmitter with Indicator	Using Portable Pressure Calibrator by Comparison Method as per DKD-R 6-1	(-) 0.85 bar to 0	0.007 bar
82	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Indicator with Sensor of Humidity Calibrator / Generator / Chamber - Single Position Calibration	Using Standard Temperature & RH Sensor with Indicator by Comparison Method	20 %RH to 90 %RH @ 25°C	1.78 %RH
83	THERMAL-SPECIFIC HEAT & HUMIDITY	Relative Humidity Meter, Hygrometer (Digital/Analog), RH Sensor with Indicator, Temperature Transmitter with Indicator, Temperature & RH Data Logger	Using Standard Temperature & RH Sensor with Indicator and Temperature & Humidity Generator by Comparison Method	20 %RH to 90 %RH @ 25 °C	1.88 %RH
84	THERMAL-SPECIFIC HEAT & HUMIDITY	Relative Humidity Meter, Hygrometer (Digital/Analog), RH Sensor with Indicator, Temperature Transmitter with Indicator, Temperature & RH Data Logger	Using Standard Temperature & RH Sensor with Indicator and Temperature & Humidity Generator by Comparison Method	5 °C to 50 °C @ 50 %RH	0.38 °C



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85	THERMAL-TEMPERATURE	Dial Thermometer, Digital Thermometer, RTD/Thermocouple with or without Indicator/Controller, Temperature Transmitter, Temperature Scanner/Recorder	Using SSPRT Sensor with Indicator, Liquid Cold Bath and DMM by Comparison Method	(-) 37 °C to 50 °C	0.24 °C
86	THERMAL-TEMPERATURE	Dial Thermometer, Digital Thermometer, RTD/Thermocouple with or without Indicator/Controller, Temperature Transmitter, Temperature Scanner/Recorder	Using SSPRT Sensor with Indicator, Liquid Bath and DMM by Comparison Method	50 °C to 250 °C	0.36 °C
87	THERMAL-TEMPERATURE	Dial Thermometer, Digital Thermometer, RTD/Thermocouple with or without Indicator/Controller, Temperature Transmitter, Temperature Scanner/Recorder	Using SSPRT Sensor with Indicator, DMM and Dry Bath by Comparison Method	50 °C to 600 °C	0.2 °C



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88	THERMAL-TEMPERATURE	Infrared Thermometer / Pyrometer, Thermal Imager (Temperature only) @ Emissivity 0.95	Using Standard IR Thermometer & Black Body Furnace by Comparison Method	500 °C to 1200 °C	4.19 °C
89	THERMAL-TEMPERATURE	Infrared Thermometer, Pyrometer, Thermal Imager (Temperature only) @ Emissivity 0.95	Using Standard IR Thermometer & Black Body Furnace by Comparison Method	50 °C to 500 °C	3.59 °C
90	THERMAL-TEMPERATURE	Liquid in Glass Thermometer, Thermometer (Digital/Dial)	Using SSPRT Sensor with Indicator and Liquid Bath by Comparison Method	(-) 37 °C to 50 °C	0.29 °C
91	THERMAL-TEMPERATURE	Liquid in Glass Thermometer, Thermometer (Digital/Dial)	Using SSPRT Sensor with Indicator and Liquid Bath by Comparison Method	50 °C to 250 °C	0.36 °C
92	THERMAL-TEMPERATURE	Temperature Indicator / Controller with Sensor of Oven, Muffle Furnace, Furnace, Dry Block Furnace - Single Position Calibration	Using S - Type Thermocouple with Indicator by Comparison Method	600 °C to 1200 °C	1.09 °C



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93	THERMAL-TEMPERATURE	Temperature Indicator/Controller with Sensor of Deep Freezer, Refrigerator, Oven, Environmental Chamber, Liquid Bath, Water Bath, Incubator (Non-Medical Purpose Only), Muffle Furnace, Dry Block Bath - Single Position Calibration	Using SSPRT Sensor with Indicator by Comparison Method	(-) 37 °C to 600 °C	0.15 °C
94	THERMAL-TEMPERATURE	Thermocouple with or without Indicator/Controller/Scanner/Recorder	Using S - Type Thermocouple with Indicator and Dry Bath by Comparison Method	1200 °C to 1450 °C	4.04 °C
95	THERMAL-TEMPERATURE	Thermocouple with or without Indicator/Controller/Scanner/Recorder	Using S - Type Thermocouple with Indicator and Dry Bath by Comparison Method	600 °C to 1200 °C	1.76 °C



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Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit DMM by Direct Method	1 A to 10 A	0.23 % to 0.25 %
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit DMM by Direct Method	1 mA to 10 mA	0.25 % to 0.47 %
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit DMM by Direct Method	10 mA to 100 mA	0.47 % to 0.31 %
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current @ 50 Hz	Using 6½ Digit DMM by Direct Method	100 mA to 1 A	0.31 % to 0.23 %



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5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC High Voltage @ 50 Hz	Using HV Probe & DMM by Direct Method	1 kV to 10 kV	6.03 % to 1.84 %
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit DMM by Direct Method	1 V to 1000 V	0.11 % to 0.15 %
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit DMM by Direct Method	10 mV to 100 mV	0.53 % to 0.13 %
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage @ 50 Hz	Using 6½ Digit DMM by Direct Method	100 mV to 1 V	0.13 % to 0.11 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multi Function Calibrator by Direct Method	1 A to 10 A	0.71 % to 1.88 %



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10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multi Function Calibrator by Direct Method	1 mA to 10 mA	1.12 % to 0.45 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multi Function Calibrator with 100 turns Current Coil by Direct Method	10 A to 1000 A	1.7 % to 0.96 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multi Function Calibrator by Direct Method	10 mA to 100 mA	0.45 % to 0.44 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current @ 50 Hz	Using Multi Function Calibrator by Direct Method	100 mA to 1 A	0.44 % to 0.71 %
14	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Multi Function Calibrator by Direct Method	1 V to 1000 V	0.24 % to 0.19 %
15	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Multi Function Calibrator by Direct Method	10 mV to 100 mV	0.35 % to 0.13 %



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16	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage @ 50 Hz	Using Multi Function Calibrator by Direct Method	100 mV to 1 V	0.13 % to 0.24 %
17	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit DMM by Direct Method	1 A to 10 A	0.09 % to 0.19 %
18	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit DMM by Direct Method	1 mA to 24 mA	0.06 % to 0.15 %
19	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit DMM by Direct Method	100 mA to 1 A	0.06 % to 0.09 %
20	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	Using 6½ Digit DMM by Direct Method	24 mA to 100 mA	0.15 % to 0.06 %
21	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC High Voltage	Using HV Probe & DMM by Direct Method	1 kV to 10 kV	6.03 % to 1.83 %



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22	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit DMM by Direct Method	1 mV to 100 mV	0.42 % to 0.009 %
23	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit DMM by Direct Method	1 V to 100 V	0.081 % to 0.006 %
24	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit DMM by Direct Method	100 mV to 1 V	0.009 % to 0.081 %
25	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ Digit DMM by Direct Method	100 V to 1000 V	0.006 % to 0.016 %
26	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 6½ Digit DMM by Direct Method	1 Mohm to 10 Mohm	0.012 % to 0.047 %
27	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 6½ Digit DMM by Direct Method	10 Mohm to 1000 Mohm	0.047 % to 0.33 %



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28	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 6½ Digit DMM by Direct Method	100 kohm to 1 Mohm	0.014 % to 0.012 %
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 Wire)	Using 6½ Digit DMM by Direct Method	> 1 kohm to 10 kohm	0.01 % to 0.013 %
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 Wire)	Using 6½ Digit DMM by Direct Method	1 ohm to 100 ohm	0.36 % to 0.016 %
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 Wire)	Using 6½ Digit DMM by Direct Method	10 kohm to 100 kohm	0.013 % to 0.014 %
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 Wire)	Using 6½ Digit DMM by Direct Method	100 ohm to 1 kohm	0.016 % to 0.36 %
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Precision Process Calibrator by Direct Method	1 mV to 10 mV	1.45 % to 0.06 %



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34	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Precision Process Calibrator by Direct Method	1 V to 10 V	0.58 % to 0.06 %
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Precision Process Calibrator by Direct Method	10 mV to 100 mV	0.06 % to 0.01 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Precision Process Calibrator by Direct Method	10 V to 100 V	0.06 % to 0.01 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Precision Process Calibrator by Direct Method	100 mV to 1 V	0.01 % to 0.58 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multi Function Calibrator Direct Method	100 V to 1000 V	0.01 % to 0.14 %
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Direct Current	Using Multi Function Calibrator by Direct Method	1 A to 10 A	0.63 % to 0.24 %



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40	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Direct Current	Using Multi Function Calibrator by Direct Method	1 mA to 10 mA	0.6 % to 0.16 %
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Direct Current	Using Multi Function Calibrator with 100 turns Current Coil by Direct Method	10 A to 1000 A	0.25 % to 1 %
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Direct Current	Using Multi Function Calibrator by Direct Method	10 mA to 100 mA	0.16 % to 0.15 %
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Direct Current	Using Multi Function Calibrator by Direct Method	100 mA to 1 A	0.15 % to 0.63 %
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using Decade Resistance Box by Direct Method	1 Mohm to 100 Mohm	0.59 % to 1.15 %
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using Decade Resistance Box by Direct Method	100 kohm to 1 Mohm	0.59 %



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46	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using Decade Resistance Box by Direct Method	100 Mohm to 1000 Mohm	1.15 % to 1.35 %
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using Decade Resistance Box by Direct Method	1 kohm to 100 kohm	1.29 % to 0.59 %
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using Decade Resistance Box by Direct Method	1 ohm to 100 ohm	0.63 % to 0.58 %
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using Decade Resistance Box by Direct Method	100 ohm to 1 kohm	0.58 % to 1.29 %
50	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E - Type Thermocouple	Using Precision Process Calibrator by Direct Method	(-) 100 °C to 1000 °C	0.34 °C
51	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	B - Type Thermocouple	Using Precision Process Calibrator by Direct Method	600 °C to 1550 °C	1.77 °C



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52	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J - Type Thermocouple	Using Precision Process Calibrator by Direct Method	(-) 200 °C to 1200 °C	0.23 °C
53	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K - Type Thermocouple	Using Precision Process Calibrator by Direct Method	(-) 190 °C to 1300 °C	0.26 °C
54	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N - Type Thermocouple	Using Precision Process Calibrator by Direct Method	(-) 190 °C to 1300 °C	0.3 °C
55	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R - Type Thermocouple	Using Precision Process Calibrator by Direct Method	0 °C to 1750 °C	0.56 °C
56	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (PT 100)	Using Precision Process Calibrator by Direct Method	(-) 200 °C to 800 °C	0.11 °C
57	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S - Type Thermocouple	Using Precision Process Calibrator by Direct Method	0 °C to 1700 °C	0.58 °C



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58	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	B - Type Thermocouple	Using Precision Process Calibrator by Direct Method	600 °C to 1550 °C	0.35 °C
59	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	E - Type Thermocouple	Using Precision Process Calibrator by Direct Method	(-) 100 °C to 1000 °C	0.19 °C
60	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J - Type Thermocouple	Using Precision Process Calibrator by Direct Method	(-) 200 °C to 1200 °C	0.18 °C
61	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K - Type Thermocouple	Using Precision Process Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.2 °C
62	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N - Type Thermocouple	Using Precision Process Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.2 °C
63	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R - Type Thermocouple	Using Precision Process Calibrator by Direct Method	0 °C to 1700 °C	0.32 °C



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64	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT 100)	Using Precision Process Calibrator by Direct Method	(-) 200 °C to 800 °C	0.09 °C
65	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S - Type Thermocouple	Using Precision Process Calibrator by Direct Method	0 °C to 1700 °C	0.47 °C
66	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Frequency	Using 6½ Digit DMM by Direct Method	10 Hz to 50 kHz	0.03 %
67	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Interval Meter by Comparison Method	3600 s to 86400 s	0.64 s to 5.26 s
68	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Interval Meter by Comparison Method	4 s to 60 s	0.38 s to 0.42 s
69	ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure)	Time	Using Time Interval Meter by Comparison Method	60 s to 3600 s	0.42 s to 0.64 s



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70	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multi Function Calibrator by Direct Method	50 Hz to 50 kHz	0.03 % to 1 %
71	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Contact Type	Using Digital Tachometer with Tachometer Calibrator by Comparison Method	> 100 rpm to 1000 rpm	2.1 %
72	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Contact Type	Using Digital Tachometer with Tachometer Calibrator by Comparison Method	> 1000 rpm to 6000 rpm	0.36 %
73	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Contact Type	Using Digital Tachometer with Tachometer Calibrator by Comparison Method	6 rpm to 100 rpm	4 %
74	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Non Contact Type	Using Digital Tachometer with Tachometer Calibrator by Comparison Method	> 100 rpm to 1000 rpm	1.94 %
75	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Non Contact Type	Using Digital Tachometer with Tachometer Calibrator by Comparison Method	> 1000 rpm to 10000 rpm	0.36 %



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S.No	Discipline / Group	Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrument	Calibration or Measurement Method or procedure	Measurement range and additional parameters where applicable(Range and Frequency)	* Calibration and Measurement Capability(CMC)(±)
76	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Non Contact Type	Using Digital Tachometer with Tachometer Calibrator by Comparison Method	> 10000 rpm to 90000 rpm	0.06 %
77	MECHANICAL-ACCELERATION AND SPEED	Tachometer - Non Contact Type	Using Digital Tachometer with Tachometer Calibrator by Comparison Method	6 rpm to 100 rpm	3.82 %
78	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure: Pressure Gauge (Dial/Digital), Pressure Transmitter with Indicator	Using Pressure Calibrator and Hydraulic Comparator Pump by Comparison Method as per DKD-R 6-1	0 to 400 bar	0.28 bar
79	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure: Pressure Gauge (Dial/Digital), Pressure Transmitter with Indicator	Using Pressure Calibrator and Hydraulic Comparator Pump by Comparison Method as per DKD-R 6-1	0 to 700 bar	0.62 bar
80	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure: Pressure Gauge (Dial/Digital), Pressure Transmitter with Indicator	Using Portable Pressure Calibrator by Comparison Method as per DKD-R 6-1	0 to 20 bar	0.016 bar



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81	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure: Vacuum Gauge (Dial/Digital), Pressure Transmitter with Indicator	Using Portable Pressure Calibrator by Comparison Method as per DKD-R 6-1	(-) 0.85 bar to 0	0.007 bar
82	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Indicator with Sensor of Humidity Calibrator / Generator / Chamber - Single Position Calibration	Using Standard Temperature & RH Sensor with Indicator by Comparison Method	20 %RH to 90 %RH @ 25°C	1.78 %RH
83	THERMAL-SPECIFIC HEAT & HUMIDITY	Humidity Indicator with Sensor of Humidity Calibrator / Generator / Chamber - Single Position Calibration	Using Standard Temperature & RH Sensor with Indicator by Comparison Method	5 °C to 50 °C @ 50 %RH	0.37 °C
84	THERMAL-SPECIFIC HEAT & HUMIDITY	Relative Humidity Meter, Hygrometer (Digital/Analog), RH Sensor with Indicator, Temperature Transmitter with Indicator, Temperature & RH Data Logger	Using Standard Temperature & RH Sensor with Indicator and Temperature & Humidity Generator by Comparison Method	20 %RH to 90 %RH @ 25 °C	1.88 %RH



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85	THERMAL-SPECIFIC HEAT & HUMIDITY	Relative Humidity Meter, Hygrometer (Digital/Analog), RH Sensor with Indicator, Temperature Transmitter with Indicator, Temperature & RH Data Logger	Using Standard Temperature & RH Sensor with Indicator and Temperature & Humidity Generator by Comparison Method	5 °C to 50 °C @ 50 %RH	0.38 °C
86	THERMAL-TEMPERATURE	Deep Freezer, Oven, Chamber, Furnace Room, Autoclave/ Incubators (Non-Medical Purpose only) - Multi Position Calibration (TUS - SAT)	Using Datalogger with Sensors (Minimum 05 No's & maximum as per standard & volume of DUC) by Comparison Method (Volumetric) as per AMS 2750, CQI-9, API6A, ASTM 991	(-) 80 °C to 300 °C	1.3 °C
87	THERMAL-TEMPERATURE	Deep Freezer, Oven, Chamber, Furnace Room, Autoclave/ Incubators (Non-Medical Purpose only) - Multi Position Calibration (TUS - SAT)	Using Datalogger with Sensors (minimum 03 No's & maximum as per standard, width & height of DUC) by Comparison Method (Plane) as per AMS 2750, CQI-9, API6A, ASTM 991	(-) 80 °C to 300 °C	1.3 °C



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88	THERMAL-TEMPERATURE	Dial Thermometer, Digital Thermometer, RTD/Thermocouple with or without Indicator/Controller, Temperature Transmitter, Temperature Scanner/Recorder	Using SSPRT Sensor with Indicator, Liquid Cold Bath and DMM by Comparison Method	(-) 37 °C to 50 °C	0.24 °C
89	THERMAL-TEMPERATURE	Dial Thermometer, Digital Thermometer, RTD/Thermocouple with or without Indicator/Controller, Temperature Transmitter, Temperature Scanner/Recorder	Using SSPRT Sensor with Indicator, Liquid Bath and DMM by Comparison Method	50 °C to 250 °C	0.36 °C
90	THERMAL-TEMPERATURE	Dial Thermometer, Digital Thermometer, RTD/Thermocouple with or without Indicator/Controller, Temperature Transmitter, Temperature Scanner/Recorder	Using SSPRT Sensor with Indicator, DMM and Dry Bath by Comparison Method	50 °C to 600 °C	0.2 °C



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91	THERMAL-TEMPERATURE	Furnace - Multi Position Calibration (TUS - SAT)	Using Datalogger with Sensors (Minimum 05 No's & maximum as per standard & volume of DUC) by Comparison Method (Volumetric) as per AMS 2750, CQI-9, API6A, ASTM 991	1200 °C to 1250 °C	5.28 °C
92	THERMAL-TEMPERATURE	Furnace - Multi Position Calibration (TUS - SAT)	Using Datalogger with Sensors (minimum 03 No's & maximum as per standard, width & height of DUC) by Comparison Method (Plane) as per AMS 2750, CQI-9, API6A, ASTM 991	1200 °C to 1250 °C	5.28 °C
93	THERMAL-TEMPERATURE	Infrared Thermometer / Pyrometer, Thermal Imager (Temperature only) @ Emissivity 0.95	Using Standard IR Thermometer & Black Body Furnace by Comparison Method	500 °C to 1200 °C	4.19 °C



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94	THERMAL-TEMPERATURE	Infrared Thermometer, Pyrometer, Thermal Imager (Temperature only) @ Emissivity 0.95	Using Standard IR Thermometer & Black Body Furnace by Comparison Method	50 °C to 500 °C	3.59 °C
95	THERMAL-TEMPERATURE	Liquid in Glass Thermometer, Thermometer (Digital/Dial)	Using SSPRT Sensor with Indicator and Liquid Bath by Comparison Method	(-) 37 °C to 50 °C	0.29 °C
96	THERMAL-TEMPERATURE	Liquid in Glass Thermometer, Thermometer (Digital/Dial)	Using SSPRT Sensor with Indicator and Liquid Bath by Comparison Method	50 °C to 250 °C	0.36 °C
97	THERMAL-TEMPERATURE	Oven, Chamber, Furnace, Dryer - Multi Position Calibration (TUS - SAT)	Using Datalogger with Sensors (Minimum 05 No's & maximum as per standard & volume of DUC) by Comparison Method (Volumetric) as per AMS 2750, CQI-9, API6A, ASTM 991	300 °C to 1200 °C	2.66 °C



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98	THERMAL-TEMPERATURE	Oven, Chamber, Furnace, Dryer - Multi Position Calibration (TUS - SAT)	Using Datalogger with Sensors (minimum 03 No's & maximum as per standard, width & height of DUC) by Comparison Method (Plane) as per AMS 2750, CQI-9, API6A, ASTM 991	300 °C to 1200 °C	2.66 °C
99	THERMAL-TEMPERATURE	Temperature Indicator / Controller with Sensor of Oven, Muffle Furnace, Furnace, Dry Block Furnace - Single Position Calibration	Using S - Type Thermocouple with Indicator by Comparison Method	600 °C to 1200 °C	1.09 °C
100	THERMAL-TEMPERATURE	Temperature Indicator/Controller with Sensor of Deep Freezer, Refrigerator, Oven, Environmental Chamber, Liquid Bath, Water Bath, Incubator (Non-Medical Purpose Only), Muffle Furnace, Dry Block Bath - Single Position Calibration	Using SSPRT Sensor with Indicator by Comparison Method	(-) 37 °C to 600 °C	0.15 °C



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101	THERMAL-TEMPERATURE	Thermocouple with or without Indicator/Controller/Scanner/Recorder	Using S - Type Thermocouple with Indicator and Dry Bath by Comparison Method	1200 °C to 1450 °C	4.04 °C
102	THERMAL-TEMPERATURE	Thermocouple with or without Indicator/Controller/Scanner/Recorder	Using S - Type Thermocouple with Indicator and Dry Bath by Comparison Method	600 °C to 1200 °C	1.76 °C

* CMCs represent expanded uncertainties expressed at approximately the 95% level of confidence, using a coverage factor of $k = 2$.