



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : CALIBRATION LABORATORY, G-TEK CORPORATION PRIVATE LIMITED, 3 MAHAVIR ESTATE, NEAR JALARAM MANDIR, KARELIBAUG, VADODARA, GUJARAT, INDIA

Accreditation Standard ISO/IEC 17025:2017

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Validity 13/04/2023 to 12/04/2025 **Last Amended on** 07/05/2024

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-DIRECT CURRENT (Measure)	DC Current	Using 6½ data Acquisition / Switch unit by Direct Method	1 mA to 10 mA	0.30 % to 0.12 %
2	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Current	Using 6½ data Acquisition / Switch unit by Direct Method	10 mA to 100 mA	0.12 % to 0.081 %
3	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ data Acquisition / Switch unit by Direct Method	0.1 V to 1 V	0.015 % to 0.010 %
4	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ data Acquisition / Switch unit by Direct Method	1 mV to 100 mV	0.49 % to 0.015 %
5	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ data Acquisition / Switch unit by Direct Method	1 V to 10 V	0.010 % to 0.013 %



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6	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 6½ data Acquisition / Switch unit by Direct Method	10 V to 100 V	0.013 % to 0.0065 %
7	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 6½ data Acquisition / Switch unit by Direct Method	0.1 kohm to 1 kohm	0.58 % to 0.07 %
8	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 6½ data Acquisition / Switch unit by Direct Method	1 kohm to 4 kohm	0.07 % to 0.025 %
9	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 Wire)	Using 6½ data Acquisition / Switch unit by Direct Method	5 ohm to 100 ohm	0.16 % to 0.06 %
10	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Precision process calibrator by Direct Method	1 mA to 100 mA	0.15 % to 0.023 %
11	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Precision process calibrator by Direct Method	> 0.1 V to 1 V	0.017 % to 0.005 %



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12	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Precision process calibrator by Direct Method	> 1 V to 10 V	0.016 % to 0.017 %
13	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Precision process calibrator by Direct Method	0.001 V to 0.1 V	0.68 % to 0.0082 %
14	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Precision process calibrator by Direct Method	10 V to 100 V	0.017 % to 0.005 %
15	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (2 Wire)	Using Precision process calibrator by Direct Method	400 ohm to 4 kohm	0.087 % to 0.009 %
16	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	Resistance (4 Wire)	Using Precision process calibrator by Direct Method	5 ohm to 400 ohm	0.36 % to 0.087 %
17	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	RTD (PT 100)	Using Precision process calibrator by Direct Method	(-) 200 °C to 800 °C	0.35 °C



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18	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - B Type	Using Multifunction Calibrator by Direct Method	200 °C to 400 °C	2.32 °C
19	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - B Type	Using Multifunction Calibrator by Direct Method	400 °C to 1820 °C	1.18 °C
20	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - C Type	Using Multifunction Calibrator by Direct Method	1000 °C to 2000 °C	0.93 °C
21	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - C Type	Using Multifunction Calibrator by Direct Method	200 °C to 1000 °C	0.47 °C
22	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - C Type	Using Multifunction Calibrator by Direct Method	2000 °C to 2300 °C	1.39 °C
23	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - E Type	Using Multifunction Calibrator by Direct Method	(-) 270 °C to 1000 °C	0.42 °C



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24	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - J Type	Using Multifunction Calibrator by Direct Method	(-) 210 °C to 1200 °C	0.35 °C
25	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - K Type	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.47 °C
26	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - N Type	Using Multifunction Calibrator by Direct Method	(-) 260 °C to 1300 °C	0.47 °C
27	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - R Type	Using Multifunction Calibrator by Direct Method	(-) 50 °C to 1768 °C	1.17 °C
28	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - S Type	Using Multifunction Calibrator by Direct Method	(-) 50 °C to 1768 °C	1.17 °C
29	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	Thermocouple - T Type	Using Multifunction Calibrator by Direct Method	(-) 270 °C to 400 °C	0.35 °C



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30	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (PT 100)	Using Precision process calibrator by Direct Method	(-) 200 °C to 800 °C	0.084 °C
31	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - B Type	Using Multifunction Calibrator by Direct Method	200 °C to 400 °C	2.31 °C
32	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - B Type	Using Multifunction Calibrator by Direct Method	400 °C to 1820 °C	1.16 °C
33	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - C Type	Using Multifunction Calibrator by Direct Method	1000 °C to 2000 °C	0.93 °C
34	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - C Type	Using Multifunction Calibrator by Direct Method	200 °C to 1000 °C	0.47 °C
35	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - C Type	Using Multifunction Calibrator by Direct Method	2000 °C to 2300 °C	1.39 °C



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36	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - E Type	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 1000 °C	0.30 °C
37	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - J Type	Using Multifunction Calibrator by Direct Method	(-) 210 °C to 1200 °C	0.35 °C
38	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - K Type	Using Multifunction Calibrator by Direct Method	(-) 210 °C to 1372 °C	0.47 °C
39	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - N Type	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 1300 °C	0.47 °C
40	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - R Type	Using Multifunction Calibrator by Direct Method	(-) 50 °C to 1768 °C	1.16 °C
41	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - S Type	Using Multifunction Calibrator by Direct Method	(-) 50 °C to 1768 °C	1.16 °C



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42	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	Thermocouple - T Type	Using Multifunction Calibrator by Direct Method	(-) 200 °C to 400 °C	0.35 °C
43	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure - Dial / Digital Pressure Indicating Device, Pressure Transmitter / Switches	Using Digital Pressure Gauge, Multifunction Process Calibrator & Hydraulic Comparator by Comparison Method as per DKD-R 6-1	0 to 100 bar	0.11 bar
44	MECHANICAL-PRESSURE INDICATING DEVICES	Hydraulic Pressure - Dial / Digital Pressure Indicating Device, Pressure Transmitter / Switches	Using Digital Pressure Gauge, Multifunction Process Calibrator & Hydraulic Comparator by Comparison Method as per DKD-R 6-1	0 to 600 bar	0.52 bar
45	MECHANICAL-PRESSURE INDICATING DEVICES	Pneumatic Pressure - Dial / Digital Pressure Indicating Device, Pressure Transmitter / Switches	Using Digital Pressure Calibrator with Vacuum / Pneumatic Hand Pressure Pump, Multifunction Process Calibrator by Comparison Method as per DKD-R 6-1	(-) 400 mbar to 400 mbar	0.78 mbar



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

