



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TEKTRONIX (INDIA) PRIVATE LIMITED, SHOP # 10A, OPAL SQUARE
GROUND FLOOR, PLOT # A-66 ROAD # 21, WAGLE ESTATE, THANE,
MAHARASHTRA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-3821

Page No

1 of 49

Validity

01/02/2026 to 31/01/2030

Last Amended on

03/03/2026

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 (45 Hz to 1 kHz)	Using 8½ Digit DMM by Direct Method	10 A to 20 A	0.2 A to 0.028 A
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (45 Hz to 1 kHz)	Using 8½ Digit DMM by Direct Method	100 µA to 300 mA	0.038 µA to 0.2 mA
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (45 Hz to 1 kHz)	Using 8½ Digit DMM by Direct Method	300 mA to 10 A	0.2 mA
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (10 Hz to 1 kHz)	Using 8½ Digit DMM by Direct Method	20 V to 30 V	0.011 V to 0.016 V
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (10 Hz to 100 kHz)	Using 8½ Digit DMM by Direct Method	20 mV to 200 mV	0.012 mV to 0.076 mV
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (10 Hz to 100 kHz)	Using 8½ Digit DMM by Direct Method	200 mV to 20 V	0.076 mV to 0.011 V



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Laboratory Name :

TEKTRONIX (INDIA) PRIVATE LIMITED, SHOP # 10A, OPAL SQUARE
GROUND FLOOR, PLOT # A-66 ROAD # 21, WAGLE ESTATE, THANE,
MAHARASHTRA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-3821

Page No

2 of 49

Validity

01/02/2026 to 31/01/2030

Last Amended on

03/03/2026

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7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (40 Hz to 1 kHz)	Using 8½ Digit DMM by Direct Method	60 V to 1000 V	0.016 V to 1.18 V
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (45 Hz to 5 kHz)	Using Multiproduct calibrator by Direct Method	1 A to 10 A	0.15 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (50 Hz)	Using Multiproduct calibrator & Current Coil by Direct Method	100 A to 1000 A	0.3 % to 4 %
10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (50 Hz)	Using Multiproduct calibrator & Current Coil by Direct Method	20 A to 100 A	0.8 % to 0.3 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (45 Hz to 10 kHz)	Using Multiproduct Calibrator by Direct Method	100 mA to 1 A	0.03 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (10 Hz to 10 kHz)	Using Multiproduct calibrator by Direct Method	100 V to 1000 V	0.1 % to 0.4 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (10 Hz to 100 kHz)	Using Multiproduct calibrator by Direct Method	1 mV to 20 mV	0.01 % to 0.024 %



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GROUND FLOOR, PLOT # A-66 ROAD # 21, WAGLE ESTATE, THANE,
MAHARASHTRA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-3821

Page No

3 of 49

Validity

01/02/2026 to 31/01/2030

Last Amended on

03/03/2026

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)(±)
14	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage (10 Hz to 100 kHz)	Using Multiproduct calibrator by Direct Method	20 mV to 200 mV	0.01 % to 0.05 %
15	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage (10 Hz to 100 kHz)	Using Multiproduct calibrator by Direct Method	20 V to 200 V	0.04 % to 0.08 %
16	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage (10 Hz to 100 kHz)	Using Multiproduct calibrator by Direct Method	200 mV to 20 V	0.05 % to 0.04 %
17	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance (1 kHz)	Using Multiproduct calibrator by Direct Method	100 nF to 1 µF	0.42 nF to 0.008 µF
18	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance (1 kHz)	Using Multiproduct calibrator by Direct Method	0.3 nF to 10 nF	0.013 nF to 0.065 nF
19	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance (1 kHz)	Using Multiproduct calibrator by Direct Method	10 nF to 100 nF	0.065 nF to 0.42 nF
20	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance (100 Hz)	Using Multiproduct calibrator by Direct Method	1 µF to 10 µF	0.008 µF to 0.01 µF



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

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GROUND FLOOR, PLOT # A-66 ROAD # 21, WAGLE ESTATE, THANE,
MAHARASHTRA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-3821

Page No

4 of 49

Validity

01/02/2026 to 31/01/2030

Last Amended on

03/03/2026

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)(±)
21	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance (100 Hz)	Using Multiproduct calibrator by Direct Method	10 µF to 100 µF	0.01 µF to 0.33 µF
22	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	using 8 ½ Digit DMM by Direct Method	1 A to 10 A	0.00023 A to 0.007 A
23	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	using 8 ½ Digit DMM by Direct Method	10 A to 20 A	0.007 A to 0.0165 A
24	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	using 8 ½ Digit DMM by Direct Method	100 µA to 100 mA	0.01 µA to 0.01 mA
25	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	using 8 ½ Digit DMM by Direct Method	100 mA to 1 A	0.01 mA to 0.00023 mA
26	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Voltage	using 8 ½ Digit DMM by Direct Method	10 mV to 100 mV	0.2 mV to 0.5 mV
27	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Voltage	Using 8 ½ Digit DMM by Direct Method	10 V to 1000 V	0.032 V to 0.066 V



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TEKTRONIX (INDIA) PRIVATE LIMITED, SHOP # 10A, OPAL SQUARE
GROUND FLOOR, PLOT # A-66 ROAD # 21, WAGLE ESTATE, THANE,
MAHARASHTRA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-3821

Page No

5 of 49

Validity

01/02/2026 to 31/01/2030

Last Amended on

03/03/2026

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28	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8 ½ Digit DMM by Direct Method	100 mV to 10 V	0.5 mV to 0.032 V
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 Wire)	Using 8 ½ Digit DMM by Direct Method	1 ohm to 10 ohm	0.0001 ohm to 0.096 ohm
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 8 ½ Digit DMM by Direct Method	10 Mohm to 100 Mohm	0.0022 Mohm to 1.5 Mohm
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 8 ½ Digit DMM by Direct Method	100 kohm to 10 Mohm	0.00092 kohm to 0.0022 Mohm
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 8 ½ Digit DMM by Direct Method	100 Mohm to 1000 Mohm	0.015 Mohm to 0.58 Mohm
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 Wire)	Using 8 ½ Digit DMM by Direct Method	10 ohm to 100 ohm	0.096 ohm to 0.087 ohm
34	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 Wire)	Using 8 ½ Digit DMM by Direct Method	100 ohm to 100 kohm	0.0009 ohm to 0.086 kohm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

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GROUND FLOOR, PLOT # A-66 ROAD # 21, WAGLE ESTATE, THANE,
MAHARASHTRA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-3821

Page No

6 of 49

Validity

01/02/2026 to 31/01/2030

Last Amended on

03/03/2026

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)(±)
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct calibrator by Direct Method	1 A to 20 A	0.02 % to 0.05 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct calibrator by Direct Method	10 µA to 100 µA	0.07 % to 0.02 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct calibrator by Direct Method	100 µA to 1 A	0.02 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct calibrator with current coil by Direct Method	100 A to 1000 A	1.36 % to 4 %
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct calibrator with current coil by Direct Method	20 A to 100 A	0.32 % to 1.36 %
40	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Using Multiproduct calibrator by Direct Method	100 Mohm to 1000 Mohm	0.063 Mohm to 0.13 Mohm
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Using Multiproduct calibrator by Direct Method	1 Mohm to 10 Mohm	0.001 Mohm to 0.047 Mohm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

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GROUND FLOOR, PLOT # A-66 ROAD # 21, WAGLE ESTATE, THANE,
MAHARASHTRA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-3821

Page No

7 of 49

Validity

01/02/2026 to 31/01/2030

Last Amended on

03/03/2026

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)(±)
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Using Multiproduct calibrator by Direct Method	10 Mohm to 100 Mohm	0.047 Mohm to 0.063 Mohm
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Using Multiproduct calibrator by Direct Method	100 kohm to 1 Mohm	0.004 kohm to 0.001 kohm
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Multiproduct calibrator by Direct Method	1 ohm to 10 ohm	0.007 ohm to 0.006 ohm
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Multiproduct calibrator by Direct Method	10 ohm to 100 kohm	0.006 ohm to 0.004 ohm
46	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance @ 100 V to 1000 V	Using Decade Resistance Box by Direct Method	1 Gohm to 10 Gohm	0.01 Gohm to 0.13 Gohm
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance @ 100 V to 1000 V	Using Decade Resistance Box by Direct Method	1 Mohm to 10 Mohm	0.58 Mohm to 0.12 Mohm
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance @ 100 V to 1000 V	Using Decade Resistance Box by Direct Method	10 Mohm to 100 Mohm	0.12 Mohm to 1.6 Mohm



National Accreditation Board for Testing and Calibration Laboratories

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MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3821

Validity 01/02/2026 to 31/01/2030

Page No 8 of 49

Last Amended on 03/03/2026

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)(±)
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance @ 100 V to 1000 V	Using Decade Resistance Box by Direct Method	100 kohm to 1 Mohm	1.6 kohm to 0.58 Mohm
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance @ 100 V to 1000 V	Decade Resistance Box by Comparison Method	100 Mohm to 1 Gohm	1.6 Mohm to 0.21 Mohm
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct calibrator by Direct Method	1 mV to 10 mV	0.004 mV
52	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct calibrator by Direct Method	10 mV to 100 V	0.004 mV to 0.004 V
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct calibrator by Direct Method	100 V to 1000 V	0.004 V to 0.04 V
54	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope (DC Amplitude)	Using Multiproduct calibrator by Direct Method	1 mV to 130 V	0.074 mV to 0.075 mV
55	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Amplitude (100 Hz to 50 kHz)	Using Multiproduct calibrator by Direct Method	5 mV to 100 mV	0.45 mV to 1.1 mV



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GROUND FLOOR, PLOT # A-66 ROAD # 21, WAGLE ESTATE, THANE,
MAHARASHTRA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-3821

Page No

9 of 49

Validity

01/02/2026 to 31/01/2030

Last Amended on

03/03/2026

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56	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Amplitude (50 Hz to 50 kHz)	Using Multiproduct calibrator by Direct Method	100 mV to 5.5 V	1.3 mV to 0.58 mV
57	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Bandwidth	Using Multiproduct calibrator by Direct Method	50 kHz to 1 GHz	4.7 % to 8.7 %
58	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Time Base	Using Multiproduct calibrator by Direct Method	1 ns to 5 s	0.003 ns to 0.1 ns
59	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E Type Thermocouple	Using Multiproduct calibrator by Direct Method	(-) 250 °C to 1000 °C	0.61 °C
60	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J Type Thermocouple	Using Multiproduct calibrator by Direct Method	(-) 200 °C to 1200 °C	0.44 °C
61	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K Type Thermocouple	Using Multiproduct calibrator by Direct Method	(-) 200 °C to 1372 °C	0.5 °C
62	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N Type Thermocouple	Using Multiproduct calibrator by Direct Method	(-) 200 °C to 1300 °C	0.50 °C



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GROUND FLOOR, PLOT # A-66 ROAD # 21, WAGLE ESTATE, THANE,
MAHARASHTRA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-3821

Page No

10 of 49

Validity

01/02/2026 to 31/01/2030

Last Amended on

03/03/2026

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63	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R Type Thermocouple	Using Multiproduct calibrator by Direct Method	0 °C to 1750 °C	0.65 °C
64	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S Type Thermocouple	Using Multiproduct calibrator by Direct Method	0 °C to 1750 °C	0.5 °C
65	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T Type Thermocouple	Using Multiproduct calibrator by Direct Method	(-) 250 °C to 400 °C	0.75 °C
66	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J type Thermocouple	Using Multiproduct calibrator by Direct Method	(-) 200 °C to 1200 °C	0.35 °C
67	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K type Thermocouple	Using Multiproduct calibrator by Direct Method	(-) 200 °C to 1372 °C	0.51 °C
68	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N type Thermocouple	Using Multiproduct calibrator by Direct Method	(-) 200 °C to 1300 °C	0.47 °C
69	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R type Thermocouple	Using Multiproduct calibrator by Direct Method	0 °C to 1750 °C	0.83 °C



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MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3821

Validity 01/02/2026 to 31/01/2030

Page No 11 of 49

Last Amended on 03/03/2026

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70	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (Pt 100) type	Using Multiproduct calibrator by Direct Method	(-) 200 °C to 800 °C	0.37 °C
71	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S type Thermocouple	Using Multiproduct calibrator by Direct Method	0 °C to 1750 °C	0.68 °C
72	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T type Thermocouple	Using Multiproduct calibrator by Direct Method	(-) 250 °C to 400 °C	0.74 °C
73	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multiproduct calibrator by Direct Method	10 Hz to 1 GHz	0.0001 Hz to 0.0296 Hz
74	FLUID FLOW-FLOW MEASURING DEVICES	Flow measuring devices, Mass Flow Controllers, Flow regulators, Flow meters,	Using Mass Flow controller By Comparison Method:	50 slm to 500 slm	0.72 %
75	FLUID FLOW-FLOW MEASURING DEVICES	Flow meter / Mass flow Controllers / Mass flow meter (Medium : Air)	Using molbloc with molbox terminal by comparison method	0.1 slm to 1 slm	0.26 %
76	FLUID FLOW-FLOW MEASURING DEVICES	Flow meter / Mass flow Controllers / Mass flow meter (Medium : Air)	Using Molbloc, Laminar Element and Mass Flow Terminal By Comparison Method	3 slm to 30 slm	0.21 %



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GROUND FLOOR, PLOT # A-66 ROAD # 21, WAGLE ESTATE, THANE,
MAHARASHTRA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-3821

Page No

12 of 49

Validity

01/02/2026 to 31/01/2030

Last Amended on

03/03/2026

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)(±)
77	FLUID FLOW-FLOW MEASURING DEVICES	Flow meter / Mass flow Controllers / Mass flow meter (Medium : Air)	Using Molbloc, Laminar Element, Sonic nozzle element And Mass Flow Terminal By Comparison Method	30 slm to 115 slm	0.21 %
78	FLUID FLOW-FLOW MEASURING DEVICES	Flow meter / Mass flow Controllers / Mass flow meter (Medium :Air)	Using Molbloc, Laminar Element, Sonic nozzle element And Mass Flow Terminal By Comparison Method	115 slm to 290 slm	0.26 %
79	FLUID FLOW-FLOW MEASURING DEVICES	Mass Flow meter/Mass flow controllers/Flow Meter/Flow analyzers	Using Mass Flow controller by Comparison Method	1 slm to 3 slm	0.99 %
80	MECHANICAL-PRESSURE INDICATING DEVICES	(Medium :Hydraulic) Pressure Gauge, Pressure Transmitter	Using Pressure Calibrator, Digital Multimeter by comparison method as per DKD-R 6-1	0 to 690 bar	0.21 bar
81	MECHANICAL-PRESSURE INDICATING DEVICES	(Medium: Pneumatic) Pressure Gauge, Pressure Transmitter	Using Pressure Calibrator, Digital Multimeter by comparison method as per DKD-R 6-1	0 to 10 bar	0.0018 bar
82	MECHANICAL-PRESSURE INDICATING DEVICES	(Medium: Pneumatic) Pressure Gauge, Pressure Transmitter	Using Pressure Calibrator, Digital Multimeter by Comparison Method as per DKD-R-6-1	0 to 250 mbar	0.066 mbar
83	MECHANICAL-PRESSURE INDICATING DEVICES	Absolute Pressure Gauge, Pressure Transmitter	Using Pressure Calibrator, Digital Multimeter by Comparison method as per DKD- R 6-1	0.8 mbar (abs) to 1.6 bar (abs)	0.016 %



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Certificate Number CC-3821

Validity 01/02/2026 to 31/01/2030

Page No 13 of 49

Last Amended on 03/03/2026

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)(±)
84	MECHANICAL-PRESSURE INDICATING DEVICES	Digital / Analog Vacuum Gauge, Vacuum transmitter	Using Pressure Calibrator, Digital Multimeter by comparison method as per DKD-R 6-1	(-) 250 mbar to 0	0.042 mbar
85	MECHANICAL-PRESSURE INDICATING DEVICES	Digital / Analog Vacuum Gauge, Vacuum transmitter	Using Pressure Calibrator, Digital Multimeter by comparison method as per DKD-R 6-1	(-) 34 mbar to 0	0.074 mbar
86	MECHANICAL-PRESSURE INDICATING DEVICES	Digital / Analog Vacuum Gauge, Vacuum transmitter	Using Pressure Calibrator, Digital Multimeter by comparison method as per DKD-R 6-1	(-) 900 mbar to 0	0.15 mbar
87	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge, Pressure Transmitter	Using Pressure Calibrator, Digital Multimeter by comparison method as per DKD-R 6-1	0 to 34 mbar	0.02 mbar
88	MECHANICAL-PRESSURE INDICATING DEVICES	Pressure Gauge, Pressure Transmitter (Medium: Hydraulic)	Using Pressure Calibrator, Digital Multimeter by comparison method as per DKD-R-6-1	0 to 70 bar	0.074 bar
89	MEDICAL DEVICES-MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Defibrillator Analyzer- Peak Current	Using Defibrillator Energy Source, Current Coil with Digital Oscilloscope by Comparison Method	1 A to 10 A	0.53 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

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MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3821

Validity 01/02/2026 to 31/01/2030

Page No 14 of 49

Last Amended on 03/03/2026

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)(±)
90	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Defibrillator Analyzer- Peak Voltage	Using Defibrillator Unit Source, HV divider with Digital Oscilloscope by Comparison Method	50 V to 5000 V	1.2 %
91	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Defibrillator Analyzer-Charge Time	Using Time Interval Meter & Digital Oscilloscope by Comparison Method	2 s to 8 s	0.084 s to 0.09 s
92	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Defibrillator Analyzer-Discharge Time	Using Time Interval Meter & Digital Oscilloscope by Comparison Method	2 s to 8 s	0.084 s to 0.09 s
93	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Defibrillator Analyzer/External Pacer/Pacemaker Analyzer- ECG Frequency	Using Frequency counter/Differential Amplifier with Digital Oscilloscope by Direct Method.	0.125 Hz to 200 Hz	0.0029 Hz to 0.57 Hz
94	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Defibrillator Analyzer/External Pacer/Pacemaker Analyzer- ECG Heart Rate	Using Differential Amplifier & Frequency Counter by Direct Method	0.5 Hz (30 BPM) to 5 Hz (300 BPM)	0.006 Hz to 0.023 Hz



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TEKTRONIX (INDIA) PRIVATE LIMITED, SHOP # 10A, OPAL SQUARE
GROUND FLOOR, PLOT # A-66 ROAD # 21, WAGLE ESTATE, THANE,
MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3821

Validity 01/02/2026 to 31/01/2030

Page No 15 of 49

Last Amended on 03/03/2026

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)(±)
95	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Defibrillator Analyzer/External Pacer/Pacemaker Analyzer- Load Resistance	Using High Precision DMM by Direct Method	50 ohm	0.019 ohm
96	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Defibrillator Analyzer/External Pacer/Pacemaker Analyzer- Pacer Pulse Rate	Using Defibrillator Energy Source, Shunt with Digital Oscilloscope by Comparison Method	5 ppm (0.08 Hz) to 300 ppm (5 Hz)	1.8 %
97	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Defibrillator Analyzer/External Pacer/Pacemaker Analyzer- Pacer Pulse width	Using Defibrillator Energy Source , Current Shunt with Digital Oscilloscope by Comparison Method	5 ms to 80 ms	0.4 %
98	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Defibrillator Analyzer/External Pacer/Pacemaker Analyzer-ECG Amplitude	Using Differential Amplifier & Digital Oscilloscope by Direct Method.	0.5 mV to 5.5 mV	0.0062 mV to 0.0049 mV
99	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Defibrillator Analyzer/External Pacer/Pacemaker Analyzer-Energy	Using Defibrillator Energy Source, Current Shunt & Digital Oscilloscope by Comparison Method	2 J to 360 J	0.46 J to 8.93 J



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TEKTRONIX (INDIA) PRIVATE LIMITED, SHOP # 10A, OPAL SQUARE
GROUND FLOOR, PLOT # A-66 ROAD # 21, WAGLE ESTATE, THANE,
MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3821

Page No 16 of 49

Validity 01/02/2026 to 31/01/2030

Last Amended on 03/03/2026

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)(±)
100	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Defibrillator Analyzer/External Pacer/Pacemaker Analyzer-Pacer Current	Using Defibrillator Energy Source, Shunt with Digital Oscilloscope by Comparison Method	1 mA to 250 mA	2.7 %
101	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Defibrillator Analyzer/External Pacer/Pacemaker Analyzer-Pacer Energy	Using Defibrillator Energy Source, Current Coil/Shunt with Digital Oscilloscope by Comparison Method	40 μ J to 2 J	0.4 %
102	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Defibrillator Analyzer/External Pacer/Pacemaker Analyzer-Pacer Load Resistance	Using High Precision DMM by Direct Method	50 ohm to 1500 ohm	0.019 ohm to 1.33 ohm
103	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Defibrillator Analyzer/External Pacer/Pacemaker Analyzer-Pacer Pulse Amplitude	Using High Precision DMM by Direct Method	2 mV to 700 mV	0.0013 mV to 0.043 mV
104	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Electrical Safety Analyzer - DC Leakage Current	Using Multifunction Calibrator by Direct Method	1 μ A to 10 mA	0.04 μ A to 0.029 μ A



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TEKTRONIX (INDIA) PRIVATE LIMITED, SHOP # 10A, OPAL SQUARE
GROUND FLOOR, PLOT # A-66 ROAD # 21, WAGLE ESTATE, THANE,
MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3821

Validity 01/02/2026 to 31/01/2030

Page No 17 of 49

Last Amended on 03/03/2026

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)(±)
105	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Electrical Safety Analyzer - Differential Leakage, enclosure and earth Current	Using Precision Multimeter by Comparison Method	10 μ A to 20 mA @ 50 Hz	0.06 μ A to 0.073 mA
106	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Electrical Safety Analyzer - Earth Resistance	Using Resistance Box by Direct Method	0.01 ohm to 20 ohm	0.0024 ohm to 0.006 ohm
107	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Electrical Safety Analyzer - ECG Amplitude	Using High Precision DMM, Differential Amplifier, Digital Oscilloscope by Direct Method	1 mV to 5.5 mV	0.0005 mV to 0.00037 mV
108	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Electrical Safety Analyzer - Equipment Current	Using AC Current Load & High Precision DMM by Comparison Method,	0.1 A to 8 A @ 50 Hz	0.007 A to 0.017 A
109	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Electrical Safety Analyzer - Mains AC voltage	Using AC Power Source & Precision DMM by Comparison Method:	90 V to 264 V @ 50 Hz	0.25 V to 0.43 V



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TEKTRONIX (INDIA) PRIVATE LIMITED, SHOP # 10A, OPAL SQUARE
GROUND FLOOR, PLOT # A-66 ROAD # 21, WAGLE ESTATE, THANE,
MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3821

Validity 01/02/2026 to 31/01/2030

Page No 18 of 49

Last Amended on 03/03/2026

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)(±)
110	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Electrical Safety Analyzer- Insulation Resistance Test	Using HV Decade Meg ohm Box by Direct Method	0.5 Mohm to 100 Mohm	0.013 Mohm to 1.35 Mohm
111	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Electrical Safety Analyzer- Insulation Test Voltage	Using DMM by Direct Method	250 V to 500 V	0.01 V to 0.02 V
112	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Electrical Safety Analyzer- Leakage Current (Patient)	Using Multiproduct Calibrator/ Current Source by Direct Method.	1 μ A to 10 mA	0.04 μ A to 0.029 mA
113	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Electrical Safety Analyzer- Point to Point AC Voltage@50Hz	Using Multiproduct Calibrator by Direct Method	1 V to 300 V	0.0009 V to 0.2 V
114	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Electrical Safety Analyzer- Point to Point Resistance	Using Resistance Box by Direct Method	0.01 ohm to 20 ohm	0.0024 ohm to 0.006 ohm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TEKTRONIX (INDIA) PRIVATE LIMITED, SHOP # 10A, OPAL SQUARE
GROUND FLOOR, PLOT # A-66 ROAD # 21, WAGLE ESTATE, THANE,
MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3821

Validity 01/02/2026 to 31/01/2030

Page No 19 of 49

Last Amended on 03/03/2026

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)(±)
115	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Electrical Safety Analyzer-ECG Frequency	Using Differential Amplifier & Frequency Counter by Direct Method.	0.125 Hz to 100 Hz	0.0058 Hz to 0.06 Hz
116	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Electrical Safety Analyzer-ECG Heart Rate	Using Differential Amplifier & Frequency Counter by Direct Method.	0.5 Hz (30 BPM) to 4 Hz (240 BPM)	0.006 Hz to 0.023 Hz
117	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Electro Surgical Analyzer-Crest Factor	Using RMS Meter, Current Coil by Comparison Method	1.4 % to 6 %	5 %
118	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Electrosurgery Analyzer - AC Voltage peak to peak (upto 500 kHz)	Using HV Divider with true RMS meter by Direct Method	100 V to 5000 V	5 %
119	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Electrosurgery Analyzer- Analyzer output power	Using current coil with true RMS meter by direct method:	1 W to 400 W	0.15 W to 7.29 W



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TEKTRONIX (INDIA) PRIVATE LIMITED, SHOP # 10A, OPAL SQUARE
GROUND FLOOR, PLOT # A-66 ROAD # 21, WAGLE ESTATE, THANE,
MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3821

Validity 01/02/2026 to 31/01/2030

Page No 20 of 49

Last Amended on 03/03/2026

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)(±)
120	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Electrosurgery Analyzer- CQM Resistance	Using High Precision DMM by Direct Method	1 ohm to 475 ohm	0.00017 ohm to 0.0044 ohm
121	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Electrosurgery Analyzer- Current output / Vessel Sealing Current / HF Leakage Current @ upto 500 kHz	Using current coil with true RMS meter by direct method,	10 mA to 5500 mA	0.5 % to 0.54 %
122	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Electrosurgery Analyzer- Load Resistance	Using High Precision DMM by Direct Method	10 ohm to 5200 ohm	0.017 ohm to 0.066 ohm
123	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Fetal Heart Simulator- ECG Amplitude	Using High Precision DMM with Differential Amplifier by Direct Method	0.05 mV to 2 mV	0.0005 mV to 0.00037 mV
124	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Fetal Heart Simulator- TOCO Pressure	Using high precision DMM and MPC by Direct Method	20 mmHg to 100 mmHg (0.5 mV to 40 mV)	2.9 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TEKTRONIX (INDIA) PRIVATE LIMITED, SHOP # 10A, OPAL SQUARE
GROUND FLOOR, PLOT # A-66 ROAD # 21, WAGLE ESTATE, THANE,
MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3821

Validity 01/02/2026 to 31/01/2030

Page No 21 of 49

Last Amended on 03/03/2026

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)(±)
125	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Fetal Heart Simulator-ECG / Maternal Heart rate	Using Frequency Counter/Oscilloscope by direct method	0.5 Hz to 5 Hz (30 BPM to 300 BPM)	0.006 Hz to 0.023 Hz
126	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Fetal Heart Simulator-ECG Frequency	Using Differential Amplifier & Frequency Counter by Direct Method	0.125 Hz to 100 Hz	0.0029 Hz to 0.57 Hz
127	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Gas Flow analyzer - Pressure-Vaccum	Using Pressure Calibrator by Comparison Method	(-) 900 mbar to 0	0.1 mbar
128	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Gas flow analyzer- Airway Pressure / Low Pressure	Using Pressure controller Calibrator by comparison method:	(-) 160 mbar to 160 mbar	0.08 mbar
129	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Gas Flow analyzer- Barometric Pressure	Using pressure controller by comparison method:	0.9 bar to 1.5 bar	0.064 mbar



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TEKTRONIX (INDIA) PRIVATE LIMITED, SHOP # 10A, OPAL SQUARE
GROUND FLOOR, PLOT # A-66 ROAD # 21, WAGLE ESTATE, THANE,
MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3821

Validity 01/02/2026 to 31/01/2030

Page No 22 of 49

Last Amended on 03/03/2026

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)(±)
130	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Gas flow analyzer- Flow Rate	Using Molbloc, Laminar Element, Sonic nozzle element and Mass Flow Terminal By Comparison Method:	0.1 SLM to 300 SLM	0.0023 SLM to 2.12 SLM
131	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Gas flow analyzer- High Pressure	Using Pressure Controller Calibrator by comparison method	0 to 10 bar	2.19 mbar
132	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Gas flow analyzer- Humidity measurement	Using Hygrometer by comparison method:	10 % rh to 90 % rh @ 25 °C	1.3 % rh
133	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Gas flow analyzer- Temperature	Using Temp probe indicator by comparison method	24 °C to 50 °C	0.21 °C
134	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Gas flow analyzer- Tidal volume	Using syringes by comparison method:	2 ml to 3000 ml	0.081 ml to 4.1 ml



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TEKTRONIX (INDIA) PRIVATE LIMITED, SHOP # 10A, OPAL SQUARE
GROUND FLOOR, PLOT # A-66 ROAD # 21, WAGLE ESTATE, THANE,
MAHARASHTRA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-3821

Page No

23 of 49

Validity

01/02/2026 to 31/01/2030

Last Amended on

03/03/2026

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)(±)
135	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Gas flow analyzer- Ultra Low Pressure	Using Pressure Controller Calibrator by comparison method:	0 to 10 mbar	0.02 mbar
136	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Gas Flow Analyzer- Expiratory tidal volume	Using Flow Syringes by Comparison Method.	2 ml to 3000 ml	0.081 ml to 4.1 ml
137	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Gas Flow Analyzer- Inspiratory Tidal volume	Using Flow Syringes by Comparison Method.	2 ml to 3000 ml	0.081 ml to 4.1 ml
138	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Gas Flow Analyzer: O2 Concertation	Using Certificate O2 Cylinder & Verification by Direct Method.	20 % to 100 %	1.5 % to 3.5 %
139	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Gas Flow Analyzer: Respiration Rate	Using a frequency generator by direct method	4 BPM to 100 BPM	0.1 BPM to 2.5 BPM



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TEKTRONIX (INDIA) PRIVATE LIMITED, SHOP # 10A, OPAL SQUARE
GROUND FLOOR, PLOT # A-66 ROAD # 21, WAGLE ESTATE, THANE,
MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3821 **Page No** 24 of 49

Validity 01/02/2026 to 31/01/2030 **Last Amended on** 03/03/2026

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)(±)
140	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	NIBP Analyzer / Vital Sign Simulator / Patient Monitor Analyzers / Multiparameter Simulator / Fetal Heart Simulator - ECG Amplitude	Using High Precision DMM with Differential Amplifier by Direct Method	0.05 mV to 5.5 mV	0.00051 mV to 0.00037 mV
141	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	NIBP Analyzers/ Vital Sign Simulator / Patient Monitor Analyzers / Multiparameter Simulator - ECG / Fetal / Maternal Heart Rate	Using Frequency Counter/Differential Amplifier by Direct Method	0.5 Hz to 5 Hz (30 BPM to 300 BPM)	0.006 Hz to 0.023 Hz
142	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	NIBP Analyzers/ Vital Sign Simulator / Patient Monitor Analyzers / Multiparameter Simulator - Blood Pressure Test (NIBP)	Using Pressure Gauge by Comparison Method	0 to 400 mmHg	0.14 mmHg
143	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	NIBP Analyzers/ Vital Sign Simulator / Patient Monitor Analyzers / Multiparameter Simulator - Pressure Leak Test	Using Pressure indicator & Digital Timer by Comparison Method	0 to 2 mmHg	0.04 mmHg/min
144	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Oxygen Gas Meter/ Analyzer: O2 Concertation	Using Certificate O2 Cylinder & Verification by Comparison Method	20.9 % to 100 %	1.5 % to 3.5 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TEKTRONIX (INDIA) PRIVATE LIMITED, SHOP # 10A, OPAL SQUARE
GROUND FLOOR, PLOT # A-66 ROAD # 21, WAGLE ESTATE, THANE,
MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3821

Validity 01/02/2026 to 31/01/2030

Page No 25 of 49

Last Amended on 03/03/2026

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)(±)
145	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Test Lung Simulator/Lung Tester- Pressure	Using Pressure Controller by Comparison Method	0 to 8 bar	2.19 mbar
146	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Test Lung Simulator/Lung Tester-Flow Rate	Using Mass Flow controller By Comparison Method	10 slm to 200 slm	0.33 %
147	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Test Lung Simulator/Lung Tester-Tidal Volume	Using Flow Syringe by comparison method	2 ml to 3000 ml	0.081 ml to 4.1 ml
148	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Vital Sign Simulator / Patient Monitor Analyzer/Fetal Heart Simulator/Multiparameter Simulator- ECG Frequency	Using Frequency counter/Differential amplifier with Scope meter by Direct Method	0.125 Hz to 100 Hz	0.0023 Hz to 0.57 Hz
149	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Vital Sign Simulator / Patient Monitor Analyzers / Multiparameter Simulator - Cardiac Output Injectate Temperature	Using High Precision DMM by Direct Method	13 kohm to 16 kohm	2.71 ohm to 3.01 ohm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TEKTRONIX (INDIA) PRIVATE LIMITED, SHOP # 10A, OPAL SQUARE
GROUND FLOOR, PLOT # A-66 ROAD # 21, WAGLE ESTATE, THANE,
MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3821 **Page No** 26 of 49

Validity 01/02/2026 to 31/01/2030 **Last Amended on** 03/03/2026

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)(±)
150	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Vital Sign Simulator / Patient Monitor Analyzers / Multiparameter Simulator - ECG Heart Rate	Using Frequency Counter/Differential Amplifier with Digital Oscilloscope by Direct Method	0.5 Hz to 5 Hz (30 BPM to 300 BPM)	0.006 Hz to 0.023 Hz
151	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Vital Sign Simulator / Patient Monitor Analyzers / Multiparameter Simulator - Invasive Blood Pressure	Using High Precision & DMM Power Supply by direct Method	10 mmHg to 400 mmHg (0.05 mV to 240 mV)	0.082 mmHg
152	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Vital Sign Simulator / Patient Monitor Analyzers / Multiparameter Simulator/Patient Analyzers- Temperature Simulation	Using High Precision DMM by Direct Method	1100 ohm to 25 kohm	2.81 ohm to 2.08 ohm
153	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Vital Sign Simulator//Patient Monitor/Simulator /Multiparameter Simulator/SPO2 Functional Tester / SPO2 Simulator- SPO2%	Using SPO2 Monitor by Direct Method as per IEC 80601	35 % to 100 %	3.2 %
154	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Vital Sign Simulator//Patient Monitor/Simulator /Multiparameter Simulator/SPO2 Functional Tester / SPO2 Simulator- Pulse Rate	Using SPO2 Monitor by Direct Method as per IEC 80601	30 BPM to 240 BPM	3.5 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TEKTRONIX (INDIA) PRIVATE LIMITED, SHOP # 10A, OPAL SQUARE
GROUND FLOOR, PLOT # A-66 ROAD # 21, WAGLE ESTATE, THANE,
MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3821

Validity 01/02/2026 to 31/01/2030

Page No 27 of 49

Last Amended on 03/03/2026

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)(±)
155	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Vital Sign Simulator/Patient monitor analyzers / Multiparameter Simulator - Respiration Rate	Using Differential Amplifier and Digital Oscilloscope or Frequency Counter by Direct Method	0.166 Hz (10 BrPM) to 2.5 Hz (150 BrPM)	0.0096 Hz
156	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Vital Sign Simulator/Patient monitor analyzers / Multiparameter Simulator - Respiration Rate Base Resistance	Using High Precision DMM by Direct Method	500 ohm to 2000 ohm	1.2 Ohm to 2.6 ohm
157	THERMAL- TEMPERATURE	Infrared / IR Thermometer	Using Non-Contact Pyrometer with Black body (Emissivity 0.95) by comparison method	(-) 15 °C to 120 °C	2 °C
158	THERMAL- TEMPERATURE	Infrared / IR Thermometer	Using Non-Contact Pyrometer with Black body (Emissivity 0.95) by comparison method:	50 °C to 500 °C	3.3 °C



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TEKTRONIX (INDIA) PRIVATE LIMITED, SHOP # 10A, OPAL SQUARE
GROUND FLOOR, PLOT # A-66 ROAD # 21, WAGLE ESTATE, THANE,
MAHARASHTRA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-3821

Page No

28 of 49

Validity

01/02/2026 to 31/01/2030

Last Amended on

03/03/2026

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)(±)
Site Facility					
1	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (45 Hz to 1 kHz)	Using 8½ Digit DMM by Direct Method	10 A to 20 A	0.2 A to 0.028 A
2	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (45 Hz to 1 kHz)	Using 8½ Digit DMM by Direct Method	100 µA to 300 mA	0.038 µA to 0.2 mA
3	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Current (45 Hz to 1 kHz)	Using 8½ Digit DMM by Direct Method	300 mA to 10 A	0.2 mA
4	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (10 Hz to 1 kHz)	Using 8½ Digit DMM by Direct Method	20 V to 30 V	0.011 V to 0.016 V
5	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (10 Hz to 100 kHz)	Using 8½ Digit DMM by Direct Method	20 mV to 200 mV	0.012 mV to 0.076 mV
6	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (10 Hz to 100 kHz)	Using 8½ Digit DMM by Direct Method	200 mV to 20 V	0.076 mV to 0.011 V



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TEKTRONIX (INDIA) PRIVATE LIMITED, SHOP # 10A, OPAL SQUARE
GROUND FLOOR, PLOT # A-66 ROAD # 21, WAGLE ESTATE, THANE,
MAHARASHTRA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-3821

Page No

29 of 49

Validity

01/02/2026 to 31/01/2030

Last Amended on

03/03/2026

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)(±)
7	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Measure)	AC Voltage (40 Hz to 1 kHz)	Using 8½ Digit DMM by Direct Method	60 V to 1000 V	0.016 V to 1.18 V
8	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (45 Hz to 5 kHz)	Using Multiproduct calibrator by Direct Method	1 A to 10 A	0.15 %
9	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (50 Hz)	Using Multiproduct calibrator & Current Coil by Direct Method	100 A to 1000 A	0.3 % to 4 %
10	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (50 Hz)	Using Multiproduct calibrator & Current Coil by Direct Method	20 A to 100 A	0.8 % to 0.3 %
11	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Current (45 Hz to 10 kHz)	Using Multiproduct Calibrator by Direct Method	100 mA to 1 A	0.03 %
12	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (10 Hz to 10 kHz)	Using Multiproduct calibrator by Direct Method	100 V to 1000 V	0.1 % to 0.4 %
13	ELECTRO-TECHNICAL-Alternating Current (< 1 GHz) (Source)	AC Voltage (10 Hz to 100 kHz)	Using Multiproduct calibrator by Direct Method	1 mV to 20 mV	0.01 % to 0.024 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TEKTRONIX (INDIA) PRIVATE LIMITED, SHOP # 10A, OPAL SQUARE
GROUND FLOOR, PLOT # A-66 ROAD # 21, WAGLE ESTATE, THANE,
MAHARASHTRA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-3821

Page No

30 of 49

Validity

01/02/2026 to 31/01/2030

Last Amended on

03/03/2026

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)(±)
14	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage (10 Hz to 100 kHz)	Using Multiproduct calibrator by Direct Method	20 mV to 200 mV	0.01 % to 0.05 %
15	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage (10 Hz to 100 kHz)	Using Multiproduct calibrator by Direct Method	20 V to 200 V	0.04 % to 0.08 %
16	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	AC Voltage (10 Hz to 100 kHz)	Using Multiproduct calibrator by Direct Method	200 mV to 20 V	0.05 % to 0.04 %
17	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance (1 kHz)	Using Multiproduct calibrator by Direct Method	100 nF to 1 µF	0.42 nF to 0.008 µF
18	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance (1 kHz)	Using Multiproduct calibrator by Direct Method	0.3 nF to 10 nF	0.013 nF to 0.065 nF
19	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance (1 kHz)	Using Multiproduct calibrator by Direct Method	10 nF to 100 nF	0.065 nF to 0.42 nF
20	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance (100 Hz)	Using Multiproduct calibrator by Direct Method	1 µF to 10 µF	0.008 µF to 0.01 µF



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TEKTRONIX (INDIA) PRIVATE LIMITED, SHOP # 10A, OPAL SQUARE
GROUND FLOOR, PLOT # A-66 ROAD # 21, WAGLE ESTATE, THANE,
MAHARASHTRA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-3821

Page No

31 of 49

Validity

01/02/2026 to 31/01/2030

Last Amended on

03/03/2026

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)(±)
21	ELECTRO-TECHNICAL- Alternating Current (< 1 GHz) (Source)	Capacitance (100 Hz)	Using Multiproduct calibrator by Direct Method	10 µF to 100 µF	0.01 µF to 0.33 µF
22	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	using 8 ½ Digit DMM by Direct Method	1 A to 10 A	0.00023 A to 0.007 A
23	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	using 8 ½ Digit DMM by Direct Method	10 A to 20 A	0.007 A to 0.0165 A
24	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	using 8 ½ Digit DMM by Direct Method	100 µA to 100 mA	0.01 µA to 0.01 mA
25	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Current	using 8 ½ Digit DMM by Direct Method	100 mA to 1 A	0.01 mA to 0.00023 mA
26	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Voltage	using 8 ½ Digit DMM by Direct Method	10 mV to 100 mV	0.2 mV to 0.5 mV
27	ELECTRO-TECHNICAL- DIRECT CURRENT (Measure)	DC Voltage	Using 8 ½ Digit DMM by Direct Method	10 V to 1000 V	0.032 V to 0.066 V



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TEKTRONIX (INDIA) PRIVATE LIMITED, SHOP # 10A, OPAL SQUARE
GROUND FLOOR, PLOT # A-66 ROAD # 21, WAGLE ESTATE, THANE,
MAHARASHTRA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-3821

Page No

32 of 49

Validity

01/02/2026 to 31/01/2030

Last Amended on

03/03/2026

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)(±)
28	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	DC Voltage	Using 8 ½ Digit DMM by Direct Method	100 mV to 10 V	0.5 mV to 0.032 V
29	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 Wire)	Using 8 ½ Digit DMM by Direct Method	1 ohm to 10 ohm	0.0001 ohm to 0.096 ohm
30	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 8 ½ Digit DMM by Direct Method	10 Mohm to 100 Mohm	0.0022 Mohm to 1.5 Mohm
31	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 8 ½ Digit DMM by Direct Method	100 kohm to 10 Mohm	0.00092 kohm to 0.0022 Mohm
32	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (2 Wire)	Using 8 ½ Digit DMM by Direct Method	100 Mohm to 1000 Mohm	0.015 Mohm to 0.58 Mohm
33	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 Wire)	Using 8 ½ Digit DMM by Direct Method	10 ohm to 100 ohm	0.096 ohm to 0.087 ohm
34	ELECTRO-TECHNICAL-DIRECT CURRENT (Measure)	Resistance (4 Wire)	Using 8 ½ Digit DMM by Direct Method	100 ohm to 100 kohm	0.0009 ohm to 0.086 kohm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TEKTRONIX (INDIA) PRIVATE LIMITED, SHOP # 10A, OPAL SQUARE
GROUND FLOOR, PLOT # A-66 ROAD # 21, WAGLE ESTATE, THANE,
MAHARASHTRA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-3821

Page No

33 of 49

Validity

01/02/2026 to 31/01/2030

Last Amended on

03/03/2026

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)(±)
35	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct calibrator by Direct Method	1 A to 20 A	0.02 % to 0.05 %
36	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct calibrator by Direct Method	10 μ A to 100 μ A	0.07 % to 0.02 %
37	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct calibrator by Direct Method	100 μ A to 1 A	0.02 %
38	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct calibrator with current coil by Direct Method	100 A to 1000 A	1.36 % to 4 %
39	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Current	Using Multiproduct calibrator with current coil by Direct Method	20 A to 100 A	0.32 % to 1.36 %
40	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Using Multiproduct calibrator by Direct Method	100 Mohm to 1000 Mohm	0.063 Mohm to 0.13 Mohm
41	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Using Multiproduct calibrator by Direct Method	1 Mohm to 10 Mohm	0.001 Mohm to 0.047 Mohm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TEKTRONIX (INDIA) PRIVATE LIMITED, SHOP # 10A, OPAL SQUARE
GROUND FLOOR, PLOT # A-66 ROAD # 21, WAGLE ESTATE, THANE,
MAHARASHTRA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-3821

Page No

34 of 49

Validity

01/02/2026 to 31/01/2030

Last Amended on

03/03/2026

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)(±)
42	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Using Multiproduct calibrator by Direct Method	10 Mohm to 100 Mohm	0.047 Mohm to 0.063 Mohm
43	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (2 Wire)	Using Multiproduct calibrator by Direct Method	100 kohm to 1 Mohm	0.004 kohm to 0.001 kohm
44	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Multiproduct calibrator by Direct Method	1 ohm to 10 ohm	0.007 ohm to 0.006 ohm
45	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance (4 Wire)	Using Multiproduct calibrator by Direct Method	10 ohm to 100 kohm	0.006 ohm to 0.004 ohm
46	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance @ 100 V to 1000 V	Using Decade Resistance Box by Direct Method	1 Gohm to 10 Gohm	0.01 Gohm to 0.13 Gohm
47	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance @ 100 V to 1000 V	Using Decade Resistance Box by Direct Method	1 Mohm to 10 Mohm	0.58 Mohm to 0.12 Mohm
48	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance @ 100 V to 1000 V	Using Decade Resistance Box by Direct Method	10 Mohm to 100 Mohm	0.12 Mohm to 1.6 Mohm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TEKTRONIX (INDIA) PRIVATE LIMITED, SHOP # 10A, OPAL SQUARE
GROUND FLOOR, PLOT # A-66 ROAD # 21, WAGLE ESTATE, THANE,
MAHARASHTRA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-3821

Page No

35 of 49

Validity

01/02/2026 to 31/01/2030

Last Amended on

03/03/2026

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)(±)
49	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance @ 100 V to 1000 V	Using Decade Resistance Box by Direct Method	100 kohm to 1 Mohm	1.6 kohm to 0.58 Mohm
50	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Resistance @ 100 V to 1000 V	Decade Resistance Box by Comparison Method	100 Mohm to 1 Gohm	1.6 Mohm to 0.21 Mohm
51	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct calibrator by Direct Method	1 mV to 10 mV	0.004 mV
52	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct calibrator by Direct Method	10 mV to 100 V	0.004 mV to 0.004 V
53	ELECTRO-TECHNICAL-DIRECT CURRENT (Source)	DC Voltage	Using Multiproduct calibrator by Direct Method	100 V to 1000 V	0.004 V to 0.04 V
54	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope (DC Amplitude)	Using Multiproduct calibrator by Direct Method	1 mV to 130 V	0.074 mV to 0.075 mV
55	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Amplitude (100 Hz to 50 kHz)	Using Multiproduct calibrator by Direct Method	5 mV to 100 mV	0.45 mV to 1.1 mV



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TEKTRONIX (INDIA) PRIVATE LIMITED, SHOP # 10A, OPAL SQUARE
GROUND FLOOR, PLOT # A-66 ROAD # 21, WAGLE ESTATE, THANE,
MAHARASHTRA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-3821

Page No

36 of 49

Validity

01/02/2026 to 31/01/2030

Last Amended on

03/03/2026

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)(±)
56	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Amplitude (50 Hz to 50 kHz)	Using Multiproduct calibrator by Direct Method	100 mV to 5.5 V	1.3 mV to 0.58 mV
57	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Bandwidth	Using Multiproduct calibrator by Direct Method	50 kHz to 1 GHz	4.7 % to 8.7 %
58	ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Source)	Oscilloscope Time Base	Using Multiproduct calibrator by Direct Method	1 ns to 5 s	0.003 ns to 0.1 ns
59	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	E Type Thermocouple	Using Multiproduct calibrator by Direct Method	(-) 250 °C to 1000 °C	0.61 °C
60	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	J Type Thermocouple	Using Multiproduct calibrator by Direct Method	(-) 200 °C to 1200 °C	0.44 °C
61	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	K Type Thermocouple	Using Multiproduct calibrator by Direct Method	(-) 200 °C to 1372 °C	0.5 °C
62	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	N Type Thermocouple	Using Multiproduct calibrator by Direct Method	(-) 200 °C to 1300 °C	0.50 °C



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TEKTRONIX (INDIA) PRIVATE LIMITED, SHOP # 10A, OPAL SQUARE
GROUND FLOOR, PLOT # A-66 ROAD # 21, WAGLE ESTATE, THANE,
MAHARASHTRA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-3821

Page No

37 of 49

Validity

01/02/2026 to 31/01/2030

Last Amended on

03/03/2026

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)(±)
63	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	R Type Thermocouple	Using Multiproduct calibrator by Direct Method	0 °C to 1750 °C	0.65 °C
64	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	S Type Thermocouple	Using Multiproduct calibrator by Direct Method	0 °C to 1750 °C	0.5 °C
65	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure)	T Type Thermocouple	Using Multiproduct calibrator by Direct Method	(-) 250 °C to 400 °C	0.75 °C
66	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	J type Thermocouple	Using Multiproduct calibrator by Direct Method	(-) 200 °C to 1200 °C	0.35 °C
67	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	K type Thermocouple	Using Multiproduct calibrator by Direct Method	(-) 200 °C to 1372 °C	0.51 °C
68	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	N type Thermocouple	Using Multiproduct calibrator by Direct Method	(-) 200 °C to 1300 °C	0.47 °C
69	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	R type Thermocouple	Using Multiproduct calibrator by Direct Method	0 °C to 1750 °C	0.83 °C



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TEKTRONIX (INDIA) PRIVATE LIMITED, SHOP # 10A, OPAL SQUARE
GROUND FLOOR, PLOT # A-66 ROAD # 21, WAGLE ESTATE, THANE,
MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3821

Validity 01/02/2026 to 31/01/2030

Page No 38 of 49

Last Amended on 03/03/2026

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)(±)
70	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	RTD (Pt 100) type	Using Multiproduct calibrator by Direct Method	(-) 200 °C to 800 °C	0.37 °C
71	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	S type Thermocouple	Using Multiproduct calibrator by Direct Method	0 °C to 1750 °C	0.68 °C
72	ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source)	T type Thermocouple	Using Multiproduct calibrator by Direct Method	(-) 250 °C to 400 °C	0.74 °C
73	ELECTRO-TECHNICAL-TIME & FREQUENCY (Source)	Frequency	Using Multiproduct calibrator by Direct Method	10 Hz to 1 GHz	0.0001 Hz to 0.0296 Hz
74	MEDICAL DEVICES-MEDICAL DEVICE ANALYZER/SIMULATOR EQUIPMENT	Defibrillator Analyzer- Peak Current	Using Defibrillator Energy Source, Current Coil with Digital Oscilloscope by Comparison Method	1 A to 10 A	0.53 %
75	MEDICAL DEVICES-MEDICAL DEVICE ANALYZER/SIMULATOR EQUIPMENT	Defibrillator Analyzer- Peak Voltage	Using Defibrillator Unit Source, HV divider with Digital Oscilloscope by Comparison Method	50 V to 5000 V	1.2 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TEKTRONIX (INDIA) PRIVATE LIMITED, SHOP # 10A, OPAL SQUARE
GROUND FLOOR, PLOT # A-66 ROAD # 21, WAGLE ESTATE, THANE,
MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3821

Validity 01/02/2026 to 31/01/2030

Page No 39 of 49

Last Amended on 03/03/2026

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)(±)
76	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Defibrillator Analyzer-Charge Time	Using Time Interval Meter & Digital Oscilloscope by Comparison Method	2 s to 8 s	0.084 s to 0.09 s
77	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Defibrillator Analyzer-Discharge Time	Using Time Interval Meter & Digital Oscilloscope by Comparison Method	2 s to 8 s	0.084 s to 0.09 s
78	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Defibrillator Analyzer/External Pacer/Pacemaker Analyzer- ECG Frequency	Using Frequency counter/Differential Amplifier with Digital Oscilloscope by Direct Method.	0.125 Hz to 200 Hz	0.0029 Hz to 0.57 Hz
79	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Defibrillator Analyzer/External Pacer/Pacemaker Analyzer- ECG Heart Rate	Using Differential Amplifier & Frequency Counter by Direct Method	0.5 Hz (30 BPM) to 5 Hz (300 BPM)	0.006 Hz to 0.023 Hz
80	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Defibrillator Analyzer/External Pacer/Pacemaker Analyzer- Load Resistance	Using High Precision DMM by Direct Method	50 ohm	0.019 ohm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TEKTRONIX (INDIA) PRIVATE LIMITED, SHOP # 10A, OPAL SQUARE
GROUND FLOOR, PLOT # A-66 ROAD # 21, WAGLE ESTATE, THANE,
MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3821

Validity 01/02/2026 to 31/01/2030

Page No 40 of 49

Last Amended on 03/03/2026

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)(±)
81	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Defibrillator Analyzer/External Pacer/Pacemaker Analyzer- Pacer Pulse Rate	Using Defibrillator Energy Source, Shunt with Digital Oscilloscope by Comparison Method	5 ppm (0.08 Hz) to 300 ppm (5 Hz)	1.8 %
82	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Defibrillator Analyzer/External Pacer/Pacemaker Analyzer- Pacer Pulse width	Using Defibrillator Energy Source , Current Shunt with Digital Oscilloscope by Comparison Method	5 ms to 80 ms	0.4 %
83	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Defibrillator Analyzer/External Pacer/Pacemaker Analyzer-ECG Amplitude	Using Differential Amplifier & Digital Oscilloscope by Direct Method.	0.5 mV to 5.5 mV	0.0062 mV to 0.0049 mV
84	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Defibrillator Analyzer/External Pacer/Pacemaker Analyzer-Energy	Using Defibrillator Energy Source, Current Shunt & Digital Oscilloscope by Comparison Method	2 J to 360 J	0.46 J to 8.93 J
85	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Defibrillator Analyzer/External Pacer/Pacemaker Analyzer-Pacer Current	Using Defibrillator Energy Source, Shunt with Digital Oscilloscope by Comparison Method	1 mA to 250 mA	2.7 %



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

TEKTRONIX (INDIA) PRIVATE LIMITED, SHOP # 10A, OPAL SQUARE
GROUND FLOOR, PLOT # A-66 ROAD # 21, WAGLE ESTATE, THANE,
MAHARASHTRA, INDIA

Accreditation Standard

ISO/IEC 17025:2017

Certificate Number

CC-3821

Page No

41 of 49

Validity

01/02/2026 to 31/01/2030

Last Amended on

03/03/2026

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)(±)
86	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Defibrillator Analyzer/External Pacer/Pacemaker Analyzer-Pacer Energy	Using Defibrillator Energy Source, Current Coil/Shunt with Digital Oscilloscope by Comparison Method	40 μ J to 2 J	0.4 %
87	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Defibrillator Analyzer/External Pacer/Pacemaker Analyzer-Pacer Load Resistance	Using High Precision DMM by Direct Method	50 ohm to 1500 ohm	0.019 ohm to 1.33 ohm
88	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Defibrillator Analyzer/External Pacer/Pacemaker Analyzer-Pacer Pulse Amplitude	Using High Precision DMM by Direct Method	2 mV to 700 mV	0.0013 mV to 0.043 mV
89	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Electrical Safety Analyzer - DC Leakage Current	Using Multifunction Calibrator by Direct Method	1 μ A to 10 mA	0.04 μ A to 0.029 μ A
90	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Electrical Safety Analyzer - Differential Leakage, enclosure and earth Current	Using Precision Multimeter by Comparison Method	10 μ A to 20 mA @ 50 Hz	0.06 μ A to 0.073 mA



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TEKTRONIX (INDIA) PRIVATE LIMITED, SHOP # 10A, OPAL SQUARE
GROUND FLOOR, PLOT # A-66 ROAD # 21, WAGLE ESTATE, THANE,
MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3821

Validity 01/02/2026 to 31/01/2030

Page No 42 of 49

Last Amended on 03/03/2026

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)(±)
91	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Electrical Safety Analyzer - Earth Resistance	Using Resistance Box by Direct Method	0.01 ohm to 20 ohm	0.0024 ohm to 0.006 ohm
92	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Electrical Safety Analyzer - ECG Amplitude	Using High Precision DMM, Differential Amplifier, Digital Oscilloscope by Direct Method	1 mV to 5.5 mV	0.0005 mV to 0.00037 mV
93	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Electrical Safety Analyzer - Equipment Current	Using AC Current Load & High Precision DMM by Comparison Method,	0.1 A to 8 A @ 50 Hz	0.007 A to 0.017 A
94	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Electrical Safety Analyzer - Mains AC voltage	Using AC Power Source & Precision DMM by Comparison Method:	90 V to 264 V @ 50 Hz	0.25 V to 0.43 V
95	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Electrical Safety Analyzer- Insulation Resistance Test	Using HV Decade Meg ohm Box by Direct Method	0.5 Mohm to 100 Mohm	0.013 Mohm to 1.35 Mohm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :

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GROUND FLOOR, PLOT # A-66 ROAD # 21, WAGLE ESTATE, THANE,
MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3821

Page No 43 of 49

Validity 01/02/2026 to 31/01/2030

Last Amended on 03/03/2026

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)(±)
96	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Electrical Safety Analyzer- Insulation Test Voltage	Using DMM by Direct Method	250 V to 500 V	0.01 V to 0.02 V
97	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Electrical Safety Analyzer- Leakage Current (Patient)	Using Multiproduct Calibrator/ Current Source by Direct Method.	1 μ A to 10 mA	0.04 μ A to 0.029 mA
98	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Electrical Safety Analyzer- Point to Point AC Voltage@50Hz	Using Multiproduct Calibrator by Direct Method	1 V to 300 V	0.0009 V to 0.2 V
99	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Electrical Safety Analyzer- Point to Point Resistance	Using Resistance Box by Direct Method	0.01 ohm to 20 ohm	0.0024 ohm to 0.006 ohm
100	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Electrical Safety Analyzer-ECG Frequency	Using Differential Amplifier & Frequency Counter by Direct Method.	0.125 Hz to 100 Hz	0.0058 Hz to 0.06 Hz



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TEKTRONIX (INDIA) PRIVATE LIMITED, SHOP # 10A, OPAL SQUARE
GROUND FLOOR, PLOT # A-66 ROAD # 21, WAGLE ESTATE, THANE,
MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3821

Validity 01/02/2026 to 31/01/2030

Page No 44 of 49

Last Amended on 03/03/2026

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)(±)
101	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Electrical Safety Analyzer-ECG Heart Rate	Using Differential Amplifier & Frequency Counter by Direct Method.	0.5 Hz (30 BPM) to 4 Hz (240 BPM)	0.006 Hz to 0.023 Hz
102	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Electro Surgical Analyzer-Crest Factor	Using RMS Meter, Current Coil by Comparison Method	1.4 % to 6 %	5 %
103	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Electrosurgery Analyzer - AC Voltage peak to peak (upto 500 kHz)	Using HV Divider with true RMS meter by Direct Method	100 V to 5000 V	5 %
104	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Electrosurgery Analyzer- Analyzer output power	Using current coil with true RMS meter by direct method:	1 W to 400 W	0.15 W to 7.29 W
105	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Electrosurgery Analyzer- CQM Resistance	Using High Precision DMM by Direct Method	1 ohm to 475 ohm	0.00017 ohm to 0.0044 ohm



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TEKTRONIX (INDIA) PRIVATE LIMITED, SHOP # 10A, OPAL SQUARE
GROUND FLOOR, PLOT # A-66 ROAD # 21, WAGLE ESTATE, THANE,
MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3821

Page No 45 of 49

Validity 01/02/2026 to 31/01/2030

Last Amended on 03/03/2026

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)(±)
106	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Electrosurgery Analyzer- Current output / Vessel Sealing Current / HF Leakage Current @ upto 500 kHz	Using current coil with true RMS meter by direct method,	10 mA to 5500 mA	0.5 % to 0.54 %
107	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Electrosurgery Analyzer- Load Resistance	Using High Precision DMM by Direct Method	10 ohm to 5200 ohm	0.017 ohm to 0.066 ohm
108	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Fetal Heart Simulator- ECG Amplitude	Using High Precision DMM with Differential Amplifier by Direct Method	0.05 mV to 2 mV	0.0005 mV to 0.00037 mV
109	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Fetal Heart Simulator- TOCO Pressure	Using high precision DMM and MPC by Direct Method	20 mmHg to 100 mmHg (0.5 mV to 40 mV)	2.9 %
110	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Fetal Heart Simulator-ECG / Maternal Heart rate	Using Frequency Counter/Oscilloscope by direct method	0.5 Hz to 5 Hz (30 BPM to 300 BPM)	0.006 Hz to 0.023 Hz



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TEKTRONIX (INDIA) PRIVATE LIMITED, SHOP # 10A, OPAL SQUARE
GROUND FLOOR, PLOT # A-66 ROAD # 21, WAGLE ESTATE, THANE,
MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3821

Validity 01/02/2026 to 31/01/2030

Page No 46 of 49

Last Amended on 03/03/2026

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)(±)
111	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Fetal Heart Simulator-ECG Frequency	Using Differential Amplifier & Frequency Counter by Direct Method	0.125 Hz to 100 Hz	0.0029 Hz to 0.57 Hz
112	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Gas Flow analyzer - Pressure-Vaccum	Using Pressure Calibrator by Comparison Method	(-) 900 mbar to 0	0.1 mbar
113	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Gas flow analyzer-High Pressure	Using Pressure Controller Calibrator by comparison method	0 to 10 bar	2.19 mbar
114	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	NIBP Analyzer / Vital Sign Simulator / Patient Monitor Analyzers / Multiparameter Simulator / Fetal Heart Simulator - ECG Amplitude	Using High Precision DMM with Differential Amplifier by Direct Method	0.05 mV to 5.5 mV	0.00051 mV to 0.00037 mV
115	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	NIBP Analyzers/ Vital Sign Simulator / Patient Monitor Analyzers / Multiparameter Simulator - ECG / Fetal / Maternal Heart Rate	Using Frequency Counter/Differential Amplifier by Direct Method	0.5 Hz to 5 Hz (30 BPM to 300 BPM)	0.006 Hz to 0.023 Hz



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TEKTRONIX (INDIA) PRIVATE LIMITED, SHOP # 10A, OPAL SQUARE
GROUND FLOOR, PLOT # A-66 ROAD # 21, WAGLE ESTATE, THANE,
MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3821

Validity 01/02/2026 to 31/01/2030

Page No 47 of 49

Last Amended on 03/03/2026

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)(±)
116	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	NIBP Analyzers/ Vital Sign Simulator / Patient Monitor Analyzers / Multiparameter Simulator - Blood Pressure Test (NIBP)	Using Pressure Gauge by Comparison Method	0 to 400 mmHg	0.14 mmHg
117	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	NIBP Analyzers/ Vital Sign Simulator / Patient Monitor Analyzers / Multiparameter Simulator - Pressure Leak Test	Using Pressure indicator & Digital Timer by Comparison Method	0 to 2 mmHg	0.04 mmHg/min
118	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Test Lung Simulator/Lung Tester- Pressure	Using Pressure Controller by Comparison Method	0 to 8 bar	2.19 mbar
119	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Test Lung Simulator/Lung Tester-Tidal Volume	Using Flow Syringe by comparison method	2 ml to 3000 ml	0.081 ml to 4.1 ml
120	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Vital Sign Simulator / Patient Monitor Analyzer/Fetal Heart Simulator/Multiparameter Simulator- ECG Frequency	Using Frequency counter/Differential amplifier with Scope meter by Direct Method	0.125 Hz to 100 Hz	0.0023 Hz to 0.57 Hz



National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : TEKTRONIX (INDIA) PRIVATE LIMITED, SHOP # 10A, OPAL SQUARE
GROUND FLOOR, PLOT # A-66 ROAD # 21, WAGLE ESTATE, THANE,
MAHARASHTRA, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3821

Validity 01/02/2026 to 31/01/2030

Page No 48 of 49

Last Amended on 03/03/2026

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)(±)
121	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Vital Sign Simulator / Patient Monitor Analyzers / Multiparameter Simulator - Cardiac Output Injectate Temperature	Using High Precision DMM by Direct Method	13 kohm to 16 kohm	2.71 ohm to 3.01 ohm
122	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Vital Sign Simulator / Patient Monitor Analyzers / Multiparameter Simulator - ECG Heart Rate	Using Frequency Counter/Differential Amplifier with Digital Oscilloscope by Direct Method	0.5 Hz to 5 Hz (30 BPM to 300 BPM)	0.006 Hz to 0.023 Hz
123	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Vital Sign Simulator / Patient Monitor Analyzers / Multiparameter Simulator - Invasive Blood Pressure	Using High Precision & DMM Power Supply by direct Method	10 mmHg to 400 mmHg (0.05 mV to 240 mV)	0.082 mmHg
124	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Vital Sign Simulator / Patient Monitor Analyzers / Multiparameter Simulator/Patient Analyzers- Temperature Simulation	Using High Precision DMM by Direct Method	1100 ohm to 25 kohm	2.81 ohm to 2.08 ohm
125	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Vital Sign Simulator//Patient Monitor/Simulator /Multiparameter Simulator/SPO2 Functional Tester / SPO2 Simulator- SPO2%	Using SPO2 Monitor by Direct Method as per IEC 80601	35 % to 100 %	3.2 %



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Accreditation Standard ISO/IEC 17025:2017

Certificate Number CC-3821

Validity 01/02/2026 to 31/01/2030

Page No 49 of 49

Last Amended on 03/03/2026

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126	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Vital Sign Simulator//Patient Monitor/Simulator /Multiparameter Simulator/SPO2 Functional Tester / SPO2 Simulator- Pulse Rate	Using SPO2 Monitor by Direct Method as per IEC 80601	30 BPM to 240 BPM	3.5 %
127	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Vital Sign Simulator/Patient monitor analyzers / Multiparameter Simulator - Respiration Rate	Using Differential Amplifier and Digital Oscilloscope or Frequency Counter by Direct Method	0.166 Hz (10 BrPM) to 2.5 Hz (150 BrPM)	0.0096 Hz
128	MEDICAL DEVICES- MEDICAL DEVICE ANALYZER/ SIMULATOR EQUIPMENT	Vital Sign Simulator/Patient monitor analyzers / Multiparameter Simulator - Respiration Rate Base Resistance	Using High Precision DMM by Direct Method	500 ohm to 2000 ohm	1.2 Ohm to 2.6 ohm

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