# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

| | |
|---|---|
| **Laboratory Name :** | TEKTRONIX INDIA PVT LTD, SALARPURIA PREMIA, SURVEY NO 16, KADUBEESANAHALLI, VARTHUR HOBLI, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA |
| **Accreditation Standard** | ISO/IEC 17025:2017 |
| **Certificate Number** | CC-2130 |
| **Validity** | 22/05/2020 to 21/05/2022 |



**Last Amended on** -

| S.No | Discipline / Group | Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum | 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 Active Power @50 Hz 60 V to 240 V/ 100mA to 20 A / 0.2 PF | direct method | 2.4 W to 960 W | 0.6 % to 0.24 % |
| 2 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure) | AC Active Power @50 Hz 60 V to 240 V/ 100mA to 20 A / 0.5 PF | direct method | 6 W to 2400 W | 0.6 % to 0.24 % |
| 3 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure) | AC Active Power @50 Hz 60 V to 240 V/ 100mA to 20 A / 0.8PF | direct method | 9.6 W to 3800 W | 0.6 % to 0.24 % |
| 4 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure) | AC Active Power @50 Hz 60 V to 240 V/ 100mA to 20 A / UPF | Power Analyser PA 4400 | 6 W to 4800 W | 2.05 % to 1.25 % |

# SCOPE OF ACCREDITATION

**Laboratory Name :** TEKTRONIX INDIA PVT LTD, SALARPURIA PREMIA, SURVEY NO 16, KADUBEESANAHALLI, VARTHUR HOBLI, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

**Accreditation Standard** ISO/IEC 17025:2017

**Certificate Number** CC-2130 **Page No** 2 of 50

**Validity** 22/05/2020 to 21/05/2022 **Last Amended on** -

| S.No | Discipline / Group | Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum | Calibration or Measurement Method or procedure | Measurement range and additional parameters where applicable(Range and Frequency) | * Calibration and Measurement Capability(CMC)(±) |
|---|---|---|---|---|---|
| 5 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure) | AC current, Fluke 8508A | direct method | 1 A to 20 A(10 Hz- 5 kHz) | 0.02 % to 0.3 % |
| 6 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure) | AC current, Fluke 8508A | direct method | 1 mA(300 Hz- 10 kHz) to 10 mA(10 Hz-10 kHz) | 0.05 % to 0.023 % |
| 7 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure) | AC current, Fluke 8508A | direct method | 10 mA(300 Hz- 10 kHz) to 1 A(10 Hz-10 kHz) | 0.023 % to 0.056 % |
| 8 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure) | AC current, Fluke 8508A | direct method | 100 uA to 1 mA (300 Hz- 1kHz) | 0.05% |
| 9 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure) | AC Voltage, Fluke 5790A | direct method | 1 mV(10 kHz-100 kHz) to 1 V(10 kHz-100 kHz) | 0.42 % to 0.016 % |

# SCOPE OF ACCREDITATION

| | |
|---|---|
| **Laboratory Name :** | TEKTRONIX INDIA PVT LTD, SALARPURIA PREMIA, SURVEY NO 16, KADUBEESANAHALLI, VARTHUR HOBLI, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA |
| **Accreditation Standard** | ISO/IEC 17025:2017 |
| **Certificate Number** | CC-2130 |
| **Page No** | 3 of 50 |
| **Validity** | 22/05/2020 to 21/05/2022 |
| **Last Amended on** | - |

| S.No | Discipline / Group | Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum | Calibration or Measurement Method or procedure | Measurement range and additional parameters where applicable(Range and Frequency) | * Calibration and Measurement Capability(CMC)(±) |
|---|---|---|---|---|---|
| 10 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure) | AC Voltage, Fluke 5790A | direct method | 1 V to 100V (10 Hz-40 Hz) | 0.038 % to 0.01 % |
| 11 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure) | AC Voltage, Fluke 5790A | direct method | 10 mV to 1 V(10 Hz-40 Hz) | 0.038% |
| 12 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure) | AC Voltage, Fluke 5790A | Direct Method | 10 mV to 1V (40 Hz-20 kHz) | 0.023 % to 0.008 % |
| 13 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure) | AC Voltage, Fluke 5790A | direct method | 10 mV to 20 V(100 kHz- 1MHz) | 0.19 % to 0.14 % |
| 14 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure) | AC Voltage, Fluke 5790A | Direct method | 10 V(20 kHz-100 kHz) to 500 V(10 kHz-100 kHz) | 0.009 % to 0.03 % |

# SCOPE OF ACCREDITATION

| | |
|---|---|
| **Laboratory Name :** | TEKTRONIX INDIA PVT LTD, SALARPURIA PREMIA, SURVEY NO 16, KADUBEESANAHALLI, VARTHUR HOBLI, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA |
| **Accreditation Standard** | ISO/IEC 17025:2017 |
| **Certificate Number** | CC-2130 |
| **Page No** | 4 of 50 |
| **Validity** | 22/05/2020 to 21/05/2022 |
| **Last Amended on** | - |

| S.No | Discipline / Group | Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum | Calibration or Measurement Method or procedure | Measurement range and additional parameters where applicable(Range and Frequency) | * Calibration and Measurement Capability(CMC)(±) |
|---|---|---|---|---|---|
| 15 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure) | AC Voltage, Fluke 5790A | direct method | 1mV to 10mV (10 Hz-40 Hz) | 0.44 % to 0.038 % |
| 16 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure) | AC Voltage, Fluke 5790A | Direct Method | 1V to 1000 V(40 Hz-20 kHz) | 0.008 % to 0.015 % |
| 17 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure) | AC Voltage, Fluke 5790A | Direct method | 1V to 10 V (10 kHz-100 kHz) | 0.016 % to 0.009% |
| 18 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure) | AC Voltage, Fluke 5790A | direct method | 1 mV to 10 mV(100 kHz- 1MHz) | 0.44 % to 0.19 % |
| 19 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure) | AC Voltage, Fluke 8508A 5790A | direct method | 1mV to 10 mV(40 Hz- 20 KHz) | 0.17 % to 0.023 % |

# SCOPE OF ACCREDITATION

**Laboratory Name :** TEKTRONIX INDIA PVT LTD, SALARPURIA PREMIA, SURVEY NO 16, KADUBEESANAHALLI, VARTHUR HOBLI, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

**Accreditation Standard** ISO/IEC 17025:2017

**Certificate Number** CC-2130 **Page No** 5 of 50

**Validity** 22/05/2020 to 21/05/2022 **Last Amended on** -

| S.No | Discipline / Group | Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum | Calibration or Measurement Method or procedure | Measurement range and additional parameters where applicable(Range and Frequency) | * Calibration and Measurement Capability(CMC)(±) |
|---|---|---|---|---|---|
| 20 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source) | AC current, Fluke 5522A | direct method, | 10 A to 20 A(40Hz-1kHz) | 0.059 % to 0.20 % |
| 21 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source) | AC Current, Fluke 5522A with 5500A coil | Direct method | 20A A to 1000 (@50Hz) A | 0.35 % to 0.77 % |
| 22 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source) | AC Current, Fluke 5720A | direct method | 100uA to 1mA (40 Hz-1kHz) | 0.109 % to 0.024 % |
| 23 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source) | AC Current, Fluke 5730A | Direct method | 100 mA to 1 A(40Hz-1kHz) | 0.03 % to 0.04 % |
| 24 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source) | AC Current, Fluke 5730A | direct method | 1mA to 100 mA (40Hz - 1 kHz) | 0.024 % to 0.026 % |
| 25 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source) | AC Current, Fluke 5730A | Direct method | 200uA to 100mA (10Hz-40Hz) | 0.11 % to 0.045 % |

# SCOPE OF ACCREDITATION

**Laboratory Name :** TEKTRONIX INDIA PVT LTD, SALARPURIA PREMIA, SURVEY NO 16, KADUBEESANAHALLI, VARTHUR HOBLI, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

**Accreditation Standard** ISO/IEC 17025:2017

**Certificate Number** CC-2130 **Page No** 6 of 50

**Validity** 22/05/2020 to 21/05/2022 **Last Amended on** -

| S.No | Discipline / Group | Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum | Calibration or Measurement Method or procedure | Measurement range and additional parameters where applicable(Range and Frequency) | * Calibration and Measurement Capability(CMC)(±) |
|---|---|---|---|---|---|
| 26 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source) | AC Current, Fluke 5730A & 5725A | direct method | 20mA to 10 A(5kHz-10kHz) | 0.03 % to 0.42 % |
| 27 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source) | AC Current, Fluke 5730A &5725A | direct method | 20 mA to 10 A(1kHz-10 kHz) | 0.056 % to 0.11 % |
| 28 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source) | AC Current, Fluke 5730A, 5725A | Direct method, using AC shunts | 1A to 10 A (40Hz-1kHz) | 0.05 % to 0.059 % |
| 29 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source) | AC Voltage, Fluke 5730A | Direct method | 1 mV to 1 V(10 Hz-40 Hz) | 0.49 % to 0.052 % |
| 30 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source) | AC Voltage, Fluke 5730A | direct method | 1mV to 2 mV (40 Hz - 1 kHz) | 0.6 % to 0.25 % |
| 31 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source) | AC Voltage, Fluke 5730A | Direct method | 20 mV to 20V(10 Hz-40 Hz) | 0.05 % to 0.03 % |

# SCOPE OF ACCREDITATION

| | |
|---|---|
| **Laboratory Name :** | TEKTRONIX INDIA PVT LTD, SALARPURIA PREMIA, SURVEY NO 16, KADUBEESANAHALLI, VARTHUR HOBLI, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA |
| **Accreditation Standard** | ISO/IEC 17025:2017 |
| **Certificate Number** | CC-2130 |
| **Page No** | 7 of 50 |
| **Validity** | 22/05/2020 to 21/05/2022 |
| **Last Amended on** | - |

| S.No | Discipline / Group | Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum | Calibration or Measurement Method or procedure | Measurement range and additional parameters where applicable(Range and Frequency) | * Calibration and Measurement Capability(CMC)(±) |
|---|---|---|---|---|---|
| 32 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source) | AC Voltage, Fluke 5730A | direct method | 20 V to 1000 V (40 Hz - 1 kHz) | 0.0065 % to 0.0090 % |
| 33 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source) | AC Voltage, Fluke 5730A | direct method | 20 V to 200V (10 Hz-40 Hz) | 0.03 % to 0.025 % |
| 34 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source) | AC Voltage, Fluke 5730A | direct method | 200 mV to 2V (40 Hz - 1 kHz) | 0.015 % to 0.006 % |
| 35 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source) | AC Voltage, Fluke 5730A | direct method | 200mV to 20V (100 kHz-1 MHz) | 0.46 % to 0.25 % |
| 36 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source) | AC Voltage, Fluke 5730A | direct method | 20mV to 200 mV (100 kHz-1 MHz) | 0.46 % to 0.27 % |
| 37 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source) | AC Voltage, Fluke 5730A | Direct method | 2mV to 20 mV(40 Hz - 1 kHz) | 0.25 % to 0.03 % |

# SCOPE OF ACCREDITATION

**Laboratory Name :** TEKTRONIX INDIA PVT LTD, SALARPURIA PREMIA, SURVEY NO 16, KADUBEESANAHALLI, VARTHUR HOBLI, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

**Accreditation Standard** ISO/IEC 17025:2017

**Certificate Number** CC-2130 **Page No** 8 of 50

**Validity** 22/05/2020 to 21/05/2022 **Last Amended on** -

| S.No | Discipline / Group | Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum | Calibration or Measurement Method or procedure | Measurement range and additional parameters where applicable(Range and Frequency) | * Calibration and Measurement Capability(CMC)(±) |
|---|---|---|---|---|---|
| 38 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source) | AC Voltage, Fluke 5730A | Direct method | 2mV to 20mV(10 Hz-40 Hz) | 0.26 % to 0.05 % |
| 39 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source) | AC Voltage, Fluke 5730A | direct method | 2mV to 2 V (1 kHz - 100 kHz) | 0.45 % to 0.015 % |
| 40 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source) | AC Voltage, Fluke 5730A | direct method | 2mV (100 kHz - 1 MHz) to 20 mV (100 kHz - 1MHz) | 1.75 % to 0.46 % |
| 41 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source) | AC Voltage, Fluke 5730A | direct method | 2V to 20V (40 Hz - 1 kHz) | 0.006 % to 0.0065 % |
| 42 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source) | AC Voltage, Fluke 5730A, 5725A | direct method | 100 V to 500V (1 kHz - 100 kHz) | 0.02 % to 0.27 % |
| 43 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source) | AC Voltage,Fluke 5730A | direct method | 20 mV to 200mV (40 Hz - 1 kHz) | 0.03 % to 0.015 % |

# SCOPE OF ACCREDITATION

| | |
|---|---|
| **Laboratory Name :** | TEKTRONIX INDIA PVT LTD, SALARPURIA PREMIA, SURVEY NO 16, KADUBEESANAHALLI, VARTHUR HOBLI, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA |
| **Accreditation Standard** | ISO/IEC 17025:2017 |
| **Certificate Number** | CC-2130 |
| **Page No** | 9 of 50 |
| **Validity** | 22/05/2020 to 21/05/2022 |
| **Last Amended on** | - |

| S.No | Discipline / Group | Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum | Calibration or Measurement Method or procedure | Measurement range and additional parameters where applicable(Range and Frequency) | * Calibration and Measurement Capability(CMC)(±) |
|---|---|---|---|---|---|
| 44 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source) | AC Voltage,Fluke 5730A | direct method | 2V to 100V (1 kHz - 100 kHz) | 0.015 % to 0.02 % |
| 45 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source) | Capacitance, Capacitor Standard GR 1417 | Direct Method | 100mF to 1F (@ 1kHz) | 0.28 % to 0.66 % |
| 46 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source) | Capacitance, Fluke 5522A, Capacitor Standard GR 1417 | Direct method | 10 nF(@ 1kHz) to 1uF (@ 100Hz) | 0.41% |
| 47 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source) | Capacitance, Fluke 5522A, Capacitor Standard GR 1417 | Direct method | 1uF (@ 100kHz) to 100 mF(@ 1kHz) | 0.41 % to 0.28 % |
| 48 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source) | Capacitance, Fluke 5522A, Capacitor Standard GR 1417 | Direct Method | 220 pF(@ 1KHz) to 10nF (@ 1KHz) | 5.8 % to .41 % |
| 49 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source) | Inductance, Standard Inductor GENRAD 1482 series | Direct method | 100 µH to 10 H | 0.3 % to 0.12 % |

# SCOPE OF ACCREDITATION

**Laboratory Name :** TEKTRONIX INDIA PVT LTD, SALARPURIA PREMIA, SURVEY NO 16, KADUBEESANAHALLI, VARTHUR HOBLI, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

**Accreditation Standard** ISO/IEC 17025:2017

**Certificate Number** CC-2130 **Page No** 10 of 50

**Validity** 22/05/2020 to 21/05/2022 **Last Amended on** -

| S.No | Discipline / Group | Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum | Calibration or Measurement Method or procedure | Measurement range and additional parameters where applicable(Range and Frequency) | * Calibration and Measurement Capability(CMC)(±) |
|---|---|---|---|---|---|
| 50 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | Capacitance @ 1kHz, RLC Digi bridge Quadtech 1693 | Direct Method | 10 nF to 100 nF | 0.41 % to 0.042 % |
| 51 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | Capacitance @ 1KHz, RLC Digi bridge Quadtech 1693 | Direct method | 10 pF to 100 pF | 0.25 % to 0.21 % |
| 52 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | Capacitance @ 1kHz, RLC Digi bridge Quadtech 1693 | Direct method | 100 nF to 1000 nF | 0.042 % to 0.033 % |
| 53 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | Capacitance @ 1kHz, RLC Digi bridge Quadtech 1693 | Direct method | 100 pF to 10 nF | 0.21 % to 0.07 % |
| 54 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | Capacitance @ 1KHz, RLC Digi bridge Quadtech 1693 | direct method | 1000 nF to 100 uF | 0.033 % to 0.32 % |
| 55 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC current, Agilent 3458 | direct method | 100 nA to 1 µA | 0.02 % to 0.0015 % |

# SCOPE OF ACCREDITATION

| | |
|---|---|
| **Laboratory Name :** | TEKTRONIX INDIA PVT LTD, SALARPURIA PREMIA, SURVEY NO 16, KADUBEESANAHALLI, VARTHUR HOBLI, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA |
| **Accreditation Standard** | ISO/IEC 17025:2017 |
| **Certificate Number** | CC-2130 |
| **Page No** | 11 of 50 |
| **Validity** | 22/05/2020 to 21/05/2022 |
| **Last Amended on** | - |

| S.No | Discipline / Group | Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum | Calibration or Measurement Method or procedure | Measurement range and additional parameters where applicable(Range and Frequency) | * Calibration and Measurement Capability(CMC)(±) |
|---|---|---|---|---|---|
| 56 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC current, Fluke 8508A, Fluke A40B Shunts, Vaiseshika 9410. | Direct method | 100 µA to 1 A | 0.0010 % to 0.0012 % |
| 57 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC current, Fluke 8508A, Fluke A40B Shunts, Vaiseshika 9410. | direct method | 20 A to 100 A | 0.32 % to 0.33 % |
| 58 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC current, Fluke 8508A, Fluke A40B Shunts, Vaiseshika 9410. Fluke 742 | Direct method | 1 µA to 100 µA | 0.0015 % to 0.0012 % |
| 59 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC current, Fluke 8508A, Fluke A40B Shunts, Vaiseshika 9410. Fluke 742 | direct method | 1 A to 20 A | 0.0012 % to 0.0047 % |
| 60 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Voltage, Fluke 8508A | Direct Method | 10 mV to 100 mV | 0.0052 % to 0.0005 % |
| 61 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Voltage, Fluke 8508A | direct method | 100 µV to 1 mV | 0.037 % to 0.0082 % |

# SCOPE OF ACCREDITATION

**Laboratory Name :** TEKTRONIX INDIA PVT LTD, SALARPURIA PREMIA, SURVEY NO 16, KADUBEESANAHALLI, VARTHUR HOBLI, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

**Accreditation Standard** ISO/IEC 17025:2017

**Certificate Number** CC-2130 **Page No** 12 of 50

**Validity** 22/05/2020 to 21/05/2022 **Last Amended on** -

| S.No | Discipline / Group | Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum | Calibration or Measurement Method or procedure | Measurement range and additional parameters where applicable(Range and Frequency) | * Calibration and Measurement Capability(CMC)(±) |
|---|---|---|---|---|---|
| 62 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Voltage, Fluke 8508A | Direct Method | 100 mV to 1000 V | 0.0005 % to 0.00053 % |
| 63 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Voltage, Fluke 8508A, 80K-40, Fluke 752, Null detector, DC Ref Std, Fluke 7000N | Direct Method | 1 mV to 10 mV | 0.004 % to 0.00052 % |
| 64 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | Inductance, RLC Digi bridge Quadtech 1693 | direct method | 1 H to 10 H | 0.041 % to 0.22 % |
| 65 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | Inductance, RLC Digi bridge Quadtech 1693 | direct method | 10 mH to 1 H | 0.23 % to 0.041 % |
| 66 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | Inductance, RLC Digi bridge Quadtech 1693 | direct method | 100 µH to 10 mH | 0.22 % to 0.23 % |
| 67 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | Resistance, Fluke 8508A, | direct method | 1 Ohm to 10 Ohm | 0.0044 % to 0.0017 % |

# SCOPE OF ACCREDITATION

**Laboratory Name :** TEKTRONIX INDIA PVT LTD, SALARPURIA PREMIA, SURVEY NO 16, KADUBEESANAHALLI, VARTHUR HOBLI, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

**Accreditation Standard** ISO/IEC 17025:2017

**Certificate Number** CC-2130 **Page No** 13 of 50

**Validity** 22/05/2020 to 21/05/2022 **Last Amended on** -

| S.No | Discipline / Group | Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum | Calibration or Measurement Method or procedure | Measurement range and additional parameters where applicable(Range and Frequency) | * Calibration and Measurement Capability(CMC)(±) |
|---|---|---|---|---|---|
| 68 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | Resistance, Fluke 8508A, | direct method | 10 M Ohm to 100 M Ohm | 0.004 % to 0.0198 % |
| 69 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | Resistance, Fluke 8508A, | direct method | 10 Ohm to 100 Ohm | 0.0017 % to 0.0015 % |
| 70 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | Resistance, Fluke 8508A, | direct method | 100 K Ohm to 10 M Ohm | 0.0033 % to 0.004 % |
| 71 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | Resistance, Fluke 8508A, | direct method | 100 M Ohm to 1 G Ohm | .0198 % to .17 % |
| 72 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | Resistance, Fluke 8508A, | direct method | 100 Ohm to 100 K Ohm | 15 ppm to 33 ppm |
| 73 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Current, Fluke 5730A, Fluke 5720A | Direct Method | 100 µA to 1 mA | 117 ppm to 50 ppm |

# SCOPE OF ACCREDITATION

| | |
|---|---|
| **Laboratory Name :** | TEKTRONIX INDIA PVT LTD, SALARPURIA PREMIA, SURVEY NO 16, KADUBEESANAHALLI, VARTHUR HOBLI, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA |
| **Accreditation Standard** | ISO/IEC 17025:2017 |
| **Certificate Number** | CC-2130 |
| **Page No** | 14 of 50 |
| **Validity** | 22/05/2020 to 21/05/2022 |
| **Last Amended on** | - |

| S.No | Discipline / Group | Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum | Calibration or Measurement Method or procedure | Measurement range and additional parameters where applicable(Range and Frequency) | * Calibration and Measurement Capability(CMC)(±) |
|---|---|---|---|---|---|
| 74 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Current, Fluke 5730A | Direct method | 1 mA to 1 A | 15 ppm |
| 75 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Current, Fluke 5730A | direct method | 10 µA to 100 uA | 74 ppm to 117 ppm |
| 76 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Current, Fluke 5730A, Fluke 5522A | direct method | 10 A to 20 A | 472 ppm to 1400 ppm |
| 77 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Current, Fluke 5730A, Fluke 5522A with 5500A Coil | direct method | 20 A to 1000 A | 0.35 % to 0.77 % |
| 78 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Current, Fluke 5730A, Fluke 5725A | direct method | 1 A to 10 A | 110 ppm to 470 ppm |
| 79 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Voltage, Fluke 5730A | Direct method | 1 mV to 100 mV | 5 ppm |

# SCOPE OF ACCREDITATION

| | |
|---|---|
| **Laboratory Name :** | TEKTRONIX INDIA PVT LTD, SALARPURIA PREMIA, SURVEY NO 16, KADUBEESANAHALLI, VARTHUR HOBLI, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA |
| **Accreditation Standard** | ISO/IEC 17025:2017 |
| **Certificate Number** | CC-2130 |
| **Page No** | 15 of 50 |
| **Validity** | 22/05/2020 to 21/05/2022 |
| **Last Amended on** | - |

| S.No | Discipline / Group | Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum | Calibration or Measurement Method or procedure | Measurement range and additional parameters where applicable(Range and Frequency) | * Calibration and Measurement Capability(CMC)(±) |
|---|---|---|---|---|---|
| 80 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Voltage, Fluke 5730A, 5720A, Fluke 742 with divider, 8508A Null detector | Direct method | 100 mV to 100 V | 5 ppm to 5.3 ppm |
| 81 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Voltage, Fluke 5730A, 5720A, Fluke 742 with divider, 8508A Null detector | Direct method | 100 V to 1000 V | 2 ppm |
| 82 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Resistance, 742A-10 | DIRECT METHOD | 10 Ohm | 2 ppm |
| 83 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Resistance, 8508A-7000K | Direct method | 1 G Ohm | 200 ppm |
| 84 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Resistance, Fluke 5730A and 5522A | direct method | 1 Ohm to 10 Ohm | 0.011 % to 0.0099 % |
| 85 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Resistance, Fluke 5730A and 5522A | DIRECT METHOD | 10 Ohm to 100 Ohm | 0.009 % to 0.0128 % |

# SCOPE OF ACCREDITATION

| | |
|---|---|
| **Laboratory Name :** | TEKTRONIX INDIA PVT LTD, SALARPURIA PREMIA, SURVEY NO 16, KADUBEESANAHALLI, VARTHUR HOBLI, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA |
| **Accreditation Standard** | ISO/IEC 17025:2017 |
| **Certificate Number** | CC-2130 |
| **Page No** | 16 of 50 |
| **Validity** | 22/05/2020 to 21/05/2022 |
| **Last Amended on** | - |

| S.No | Discipline / Group | Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum | Calibration or Measurement Method or procedure | Measurement range and additional parameters where applicable(Range and Frequency) | * Calibration and Measurement Capability(CMC)(±) |
|---|---|---|---|---|---|
| 86 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Resistance, Fluke 5730A and 5522A | DIRECT METHOD | 100 M Ohm to 1 G Ohm | 136 ppm to 322 ppm |
| 87 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Resistance, Fluke 742A - 1 K | DIRECTMETHOD | 1 k Ohm | 9 ppm |
| 88 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Resistance, Fluke 742A - 10M | Direct method | 10 M Ohm | 13 ppm |
| 89 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Resistance, Fluke 742A -1M | Direct method | 1 M Ohm | 2 ppm |
| 90 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Resistance, Fluke 742A, 8508A-7000K | DIRECT METHOD | 1 Ohm | 2 ppm |
| 91 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Resistance, Fluke 742A, 8508A-7000K | direct method | 10 K Ohm | 8 ppm |

# SCOPE OF ACCREDITATION

| | |
|---|---|
| **Laboratory Name :** | TEKTRONIX INDIA PVT LTD, SALARPURIA PREMIA, SURVEY NO 16, KADUBEESANAHALLI, VARTHUR HOBLI, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA |
| **Accreditation Standard** | ISO/IEC 17025:2017 |
| **Certificate Number** | CC-2130 |
| **Validity** | 22/05/2020 to 21/05/2022 |



**Last Amended on** -

| S.No | Discipline / Group | Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum | Calibration or Measurement Method or procedure | Measurement range and additional parameters where applicable(Range and Frequency) | * Calibration and Measurement Capability(CMC)(±) |
|---|---|---|---|---|---|
| 92 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Resistance, Fluke 742A-100 | DIRECT METHOD | 100 Ohm | 2 ppm |
| 93 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Resistance, Fluke 742A-100K | Direct method | 100 k Ohm | 2 ppm |
| 94 | ELECTRO-TECHNICAL-ELECTRICAL EQUIPMENT (Measure) | AC Active Power at 50 Hz 60 V to 240 V/100 mA to 20 A/ 0.8 PF | Power Analyser PA 4400 by direct method | 4.8 W to 3840 W | 0.60 % to 0.24 % |
| 95 | ELECTRO-TECHNICAL-OTHERS (Measure) | Phase Angle (V-V) | Phase Meter , Clark Hess 6000 by Direct method | - 180 ° to +180 ° | 0.034° |
| 96 | ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure) | Amplitude Modulation With CF:1GHz (rate 1kHz) | Measuring Receiver HP 8902A by direct method | Modulation Depth: 10 % to 90 % | 3.5 % to 3.6 % |

# SCOPE OF ACCREDITATION

| | |
|---|---|
| **Laboratory Name :** | TEKTRONIX INDIA PVT LTD, SALARPURIA PREMIA, SURVEY NO 16, KADUBEESANAHALLI, VARTHUR HOBLI, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA |
| **Accreditation Standard** | ISO/IEC 17025:2017 |
| **Certificate Number** | CC-2130 |
| **Page No** | 18 of 50 |
| **Validity** | 22/05/2020 to 21/05/2022 |
| **Last Amended on** | - |

| S.No | Discipline / Group | Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum | Calibration or Measurement Method or procedure | Measurement range and additional parameters where applicable(Range and Frequency) | * Calibration and Measurement Capability(CMC)(±) |
|---|---|---|---|---|---|
| 97 | ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure) | Frequency Modulation at CF: 1GHz | Measuring Receiver, HP 8902A by direct method | FM Deviation 10 kHz to 200 kHz | 6.0 % to 6.1 % |
| 98 | ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure) | RF Attenuation at 100 kHz to 43 GHz | E8257D,MG3694 C SignalGenerators and Power meters with Sensors 8487D & NRPZ-55 by Comparison Method | 1 dB to 50 dB | 0.25 dB to 0.45 dB |
| 99 | ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure) | RF Frequency | Frequency Counter 53132 A & R&S FW 43 Spectrum Analyser by Direct Method | 1 Hz to 20 GHz | 0.058 ppm to 0.0029 ppm |
| 100 | ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure) | RF Frequency | Frequency Counter 53151 A & R&S FW 43 Spectrum Analyser by Direct Method | 20 GHz to 43.5 GHz | 0.0029 ppm to 0.0058 ppm |
| 101 | ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure) | RF Power @ 100 kHz to 40 GHz | Keysight Power meter with 8487D Power sensor and Power meter with NRP- 50 T Power sensor by Direct/ Comparison method | +18 dBm to -70 dBm | 5.5 % to 8.7 % |

# SCOPE OF ACCREDITATION

| | |
|---|---|
| **Laboratory Name :** | TEKTRONIX INDIA PVT LTD, SALARPURIA PREMIA, SURVEY NO 16, KADUBEESANAHALLI, VARTHUR HOBLI, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA |
| **Accreditation Standard** | ISO/IEC 17025:2017 |
| **Certificate Number** | CC-2130 |
| **Page No** | 19 of 50 |
| **Validity** | 22/05/2020 to 21/05/2022 |
| **Last Amended on** | - |

| S.No | Discipline / Group | Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum | Calibration or Measurement Method or procedure | Measurement range and additional parameters where applicable(Range and Frequency) | * Calibration and Measurement Capability(CMC)(±) |
|---|---|---|---|---|---|
| 102 | ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure) | RF Power at > 40 GHz to 50 GHz | Keysight Power meter with 8487D Power sensor and Power meter with NRZ-55 Power sensor by direct/ Comparison method | +15 dBm to -60 dBm | 5.6 % to 9 % |
| 103 | ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure) | VSWR @ 10 MHz to 50 GHz | Maury microwave loads 2611A Series, RF bridge 560-97N-1, Type-N Calibration Kit Agilent 85056A Mechanical Calibration kit (DC-50GHz) by Comparison method | 1.05 to 2.0 | 0.32 LU to 0.62 LU |
| 104 | ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source) | Oscilloscope Amplitude (DC Signal) | Fluke 9500 Scope calibrator with 9530 Head by Direct Method | 1 mV to 100 mV | 0.21 % to 0.06 % |
| 105 | ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source) | Oscilloscope Amplitude (DC Signal) | Fluke 9500 Scope calibrator with 9530 Head by Direct Method | 100 mV to 190 V | 0.06 % to 0.03 % |

# SCOPE OF ACCREDITATION

| | |
|---|---|
| **Laboratory Name :** | TEKTRONIX INDIA PVT LTD, SALARPURIA PREMIA, SURVEY NO 16, KADUBEESANAHALLI, VARTHUR HOBLI, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA |
| **Accreditation Standard** | ISO/IEC 17025:2017 |
| **Certificate Number** | CC-2130 |
| **Validity** | 22/05/2020 to 21/05/2022 |



**Last Amended on** -

| S.No | Discipline / Group | Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum | Calibration or Measurement Method or procedure | Measurement range and additional parameters where applicable(Range and Frequency) | * Calibration and Measurement Capability(CMC)(±) |
|---|---|---|---|---|---|
| 106 | ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source) | Oscilloscope Bandwidth with Reference @50 kHz and 10 MHz | Anritsu MG3694C Signal Generator with R&S Power meter NRP 50 T and E 8257 D Signal Generator by direct method | >1 GHz to 18 GHz | 0.26 dB to 0.35 dB |
| 107 | ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source) | Oscilloscope Bandwidth with Reference @50 kHz and 10 MHz | Fluke 9500 Scope calibrator with 9530 Head by Direct Method | 10 MHz to 1 GHz | 0.22 dB to 0.26 dB |
| 108 | ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source) | Oscilloscope Scope Bandwidth with Reference @50 kHz and 10 MHz | Anritsu MG3694C Signal Generator with R&S Power meter NRP 50 T and E 8257 D Signal Generator by direct method | >18 GHz to 26 GHz | 0.35 dB to 0.45 dB |
| 109 | ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source) | Oscilloscope Time Base | Fluke 9500 Scope calibrator with 9530 Head by Direct Method | 1 nS to 5 S | 1 ppm to 3.5 ppm |

# SCOPE OF ACCREDITATION

| | |
|---|---|
| **Laboratory Name :** | TEKTRONIX INDIA PVT LTD, SALARPURIA PREMIA, SURVEY NO 16, KADUBEESANAHALLI, VARTHUR HOBLI, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA |
| **Accreditation Standard** | ISO/IEC 17025:2017 |
| **Certificate Number** | CC-2130 |
| **Page No** | 21 of 50 |
| **Validity** | 22/05/2020 to 21/05/2022 |
| **Last Amended on** | - |

| S.No | Discipline / Group | Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum | Calibration or Measurement Method or procedure | Measurement range and additional parameters where applicable(Range and Frequency) | * Calibration and Measurement Capability(CMC)(±) |
|---|---|---|---|---|---|
| 110 | ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source) | RF Attenuation at 100 kHz to 18 GHz | HP 8496B and HP8494 B Step Attenuator by direct method | 1 dB to 50 dB | 0.25 dB to 0.45 dB |
| 111 | ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source) | RF Frequency | Keysight Signal Generator E8257D by Direct Method | 1 Hz to 20 GHz | 0.058 ppm to 0.0029 ppm |
| 112 | ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source) | RF Frequency | Keysight Signal Generator E8257D | 20 GHz to 43.5 GHz | 0.0029 ppm to 0.0058 ppm |
| 113 | ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source) | RF Power @ >40 GHz to 50 GHz | Keysight E8257D and Anritsu MG 3694 C RF Signal Generator with Keysight Power meter with 8487D Power sensor and Power meter with NRZ-55 Power sensor by direct method | +15 dBm to -60 dBm | 7.33 % to 9 % |

# SCOPE OF ACCREDITATION

| | |
|---|---|
| **Laboratory Name :** | TEKTRONIX INDIA PVT LTD, SALARPURIA PREMIA, SURVEY NO 16, KADUBEESANAHALLI, VARTHUR HOBLI, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA |
| **Accreditation Standard** | ISO/IEC 17025:2017 |
| **Certificate Number** | CC-2130 |
| **Page No** | 22 of 50 |
| **Validity** | 22/05/2020 to 21/05/2022 |
| **Last Amended on** | - |

| S.No | Discipline / Group | Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum | Calibration or Measurement Method or procedure | Measurement range and additional parameters where applicable(Range and Frequency) | * Calibration and Measurement Capability(CMC)(±) |
|---|---|---|---|---|---|
| 114 | ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source) | RF Power @ 100 kHz to 40 GHz | Keysight E8257D and Anritsu MG 3694 C RF Signal Generator with Keysight Power meter with 8487D Power sensor and Power meter with NRZ-55 Power sensor by direct method | +18 dBm to -70 dBm | 5.5 % to 8.81 % |
| 115 | ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source) | VSWR @10MHz to 18 GHz | VSWR Sources by direct method | Fixed values 1.05, 1.10 to 1.50, 2.0 | 0.095 LU to 0.40 LU |
| 116 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | Temperature Simulation, Fluke 8508A,/Zero bath | direct method | E type (-) 250°C to 1000°C | 0.03°C |
| 117 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | Temperature Simulation, Fluke 8508A,/Zero bath | direct method | J type (-) 200°C to 1200°C | 0.014°C |

# SCOPE OF ACCREDITATION

| | |
|---|---|
| **Laboratory Name :** | TEKTRONIX INDIA PVT LTD, SALARPURIA PREMIA, SURVEY NO 16, KADUBEESANAHALLI, VARTHUR HOBLI, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA |
| **Accreditation Standard** | ISO/IEC 17025:2017 |
| **Certificate Number** | CC-2130 |
| **Page No** | 23 of 50 |
| **Validity** | 22/05/2020 to 21/05/2022 |
| **Last Amended on** | - |

| S.No | Discipline / Group | Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum | Calibration or Measurement Method or procedure | Measurement range and additional parameters where applicable(Range and Frequency) | * Calibration and Measurement Capability(CMC)(±) |
|---|---|---|---|---|---|
| 118 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | Temperature Simulation, Fluke 8508A,/Zero bath | Direct Method | K type (-) 200°C to 1372°C | 0.018°C |
| 119 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | Temperature Simulation, Fluke 8508A,/Zero bath | direct method | N type (-) 200°C to 1300°C | 0.026°C |
| 120 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | Temperature Simulation, Fluke 8508A,/Zero bath | direct method | R type 0 °C to 1750°C | 0.23°C |
| 121 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | Temperature Simulation, Fluke 8508A,/Zero bath | direct method | RTD (-) 200 °C to 800 °C | 0.014°C |
| 122 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | Temperature Simulation, Fluke 8508A,/Zero bath | direct method | S type 0°C to 1750°C | 0.13°C |
| 123 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | Temperature Simulation, Fluke 8508A,/Zero bath | Direct method | T type (-) 250°C to 400°C | 0.015°C |

# SCOPE OF ACCREDITATION

| | |
|---|---|
| **Laboratory Name :** | TEKTRONIX INDIA PVT LTD, SALARPURIA PREMIA, SURVEY NO 16, KADUBEESANAHALLI, VARTHUR HOBLI, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA |
| **Accreditation Standard** | ISO/IEC 17025:2017 |
| **Certificate Number** | CC-2130 |
| **Page No** | 24 of 50 |
| **Validity** | 22/05/2020 to 21/05/2022 |
| **Last Amended on** | - |

| S.No | Discipline / Group | Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum | Calibration or Measurement Method or procedure | Measurement range and additional parameters where applicable(Range and Frequency) | * Calibration and Measurement Capability(CMC)(±) |
|---|---|---|---|---|---|
| 124 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | Temperature Simulation, Fluke 5522A | Direct Method | J type (-) 200 °C to 1200 °C | 0.32°C |
| 125 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | Temperature Simulation, Fluke 5522A | Direct Method | K type (-)200 °C to 1372 °C | 0.47°C |
| 126 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | Temperature Simulation, Fluke 5522A | direct method | N type (-) 200 °C to 1300 °C | 0.47°C |
| 127 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | Temperature Simulation, Fluke 5522A | direct method | R type 0°C to 1750°C | 0.67°C |
| 128 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | Temperature Simulation, Fluke 5522A | Direct Method | RTD (-) 200 °C to 800 °C | 0.37°C |
| 129 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | Temperature Simulation, Fluke 5522A | direct method | S type 0 °C to 1750 °C | 0.56°C |

# SCOPE OF ACCREDITATION

| | |
|---|---|
| **Laboratory Name :** | TEKTRONIX INDIA PVT LTD, SALARPURIA PREMIA, SURVEY NO 16, KADUBEESANAHALLI, VARTHUR HOBLI, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA |
| **Accreditation Standard** | ISO/IEC 17025:2017 |
| **Certificate Number** | CC-2130 |
| **Validity** | 22/05/2020 to 21/05/2022 |



**Last Amended on** -

| S.No | Discipline / Group | Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum | Calibration or Measurement Method or procedure | Measurement range and additional parameters where applicable(Range and Frequency) | * Calibration and Measurement Capability(CMC)(±) |
|---|---|---|---|---|---|
| 130 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | Temperature Simulation, Fluke 5522A | direct method | T Type (-)250 °C to 400 °C | 0.74°C |
| 131 | ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure) | Time Period, Counter Tektronix MCA 3040 | direct method | 1 nS to 5 S | 1 ppm to 0.8 ppm |
| 132 | THERMAL-TEMPERATURE | Oven, Bath, Dry Well Furnace (Single Point) / S-Type Thermocouple & 8 1/2 DMM | Comparison method | 400 °C to 1000 ° C | 1.78° C |
| 133 | THERMAL-TEMPERATURE | Oven, Bath, Dry Well Furnace (Single Point) / SPRT & 8 1/2 digit DMM. | Comparison method. | -40 °C to 400 °C | 0.31°C |
| 134 | THERMAL-TEMPERATURE | Temperature - RTD, Thermocouple, (with or without Indicator) Temperature Gauge with dry well, SPRT & 8 1/2 DMM, S-Type Thermocouple & 8 1/2 DMM | Comparison Method | -40 °C to 400 °C | 0.30°C |

# SCOPE OF ACCREDITATION

**Laboratory Name :** TEKTRONIX INDIA PVT LTD, SALARPURIA PREMIA, SURVEY NO 16, KADUBEESANAHALLI, VARTHUR HOBLI, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

**Accreditation Standard** ISO/IEC 17025:2017

**Certificate Number** CC-2130 **Page No** 26 of 50

**Validity** 22/05/2020 to 21/05/2022 **Last Amended on** -

| S.No | Discipline / Group | Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum | Calibration or Measurement Method or procedure | Measurement range and additional parameters where applicable(Range and Frequency) | * Calibration and Measurement Capability(CMC)(±) |
|---|---|---|---|---|---|
| 135 | THERMAL-TEMPERATURE | Temperature - Thermocouples (with or without Indicator) Temperature Gauge with S-Type Thermocouple & 8 1/2 DMM | Comparison method | 400 °C to 1000 ° C | 1.76° C |

# SCOPE OF ACCREDITATION

| | |
|---|---|
| **Laboratory Name :** | TEKTRONIX INDIA PVT LTD, SALARPURIA PREMIA, SURVEY NO 16, KADUBEESANAHALLI, VARTHUR HOBLI, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA |
| **Accreditation Standard** | ISO/IEC 17025:2017 |
| **Certificate Number** | CC-2130 |
| **Validity** | 22/05/2020 to 21/05/2022 |



**Last Amended on** -

| S.No | Discipline / Group | Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum | 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, Fluke 8508A | direct method | 1 A to 20 A(10 Hz- 5 kHz) | 0.02 % to 0.3 % |
| 2 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure) | AC current, Fluke 8508A | direct method | 1 mA(300 Hz- 10 kHz) to 10 mA(10 Hz-10 kHz) | 0.05 % to 0.023 % |
| 3 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure) | AC current, Fluke 8508A | direct method | 10 mA(300 Hz- 10 kHz) to 1 A(10 Hz-10 kHz) | 0.023 % to 0.056 % |
| 4 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure) | AC current, Fluke 8508A | direct method | 100 uA to 1 mA (300 Hz- 1kHz) | 0.05% |

# SCOPE OF ACCREDITATION

| | |
|---|---|
| **Laboratory Name :** | TEKTRONIX INDIA PVT LTD, SALARPURIA PREMIA, SURVEY NO 16, KADUBEESANAHALLI, VARTHUR HOBLI, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA |
| **Accreditation Standard** | ISO/IEC 17025:2017 |
| **Certificate Number** | CC-2130 |
| **Validity** | 22/05/2020 to 21/05/2022 |



**Last Amended on** -

| S.No | Discipline / Group | Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum | Calibration or Measurement Method or procedure | Measurement range and additional parameters where applicable(Range and Frequency) | * Calibration and Measurement Capability(CMC)(±) |
|---|---|---|---|---|---|
| 5 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure) | AC Voltage, Fluke 5790A | direct method | 1 mV(10 kHz-100 kHz) to 1 V(10 kHz-100 kHz) | 0.42 % to 0.016 % |
| 6 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure) | AC Voltage, Fluke 5790A | direct method | 1 V to 100V (10 Hz-40 Hz) | 0.038 % to 0.01 % |
| 7 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure) | AC Voltage, Fluke 5790A | direct method | 10 mV to 1 V(10 Hz-40 Hz) | 0.038% |
| 8 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure) | AC Voltage, Fluke 5790A | Direct Method | 10 mV to 1V (40 Hz-20 kHz) | 0.023 % to 0.008 % |
| 9 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure) | AC Voltage, Fluke 5790A | direct method | 10 mV to 20 V(100 kHz- 1MHz) | 0.19 % to 0.14 % |

# SCOPE OF ACCREDITATION

| | |
|---|---|
| **Laboratory Name :** | TEKTRONIX INDIA PVT LTD, SALARPURIA PREMIA, SURVEY NO 16, KADUBEESANAHALLI, VARTHUR HOBLI, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA |
| **Accreditation Standard** | ISO/IEC 17025:2017 |
| **Certificate Number** | CC-2130 |
| **Page No** | 29 of 50 |
| **Validity** | 22/05/2020 to 21/05/2022 |
| **Last Amended on** | - |

| S.No | Discipline / Group | Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum | Calibration or Measurement Method or procedure | Measurement range and additional parameters where applicable(Range and Frequency) | * Calibration and Measurement Capability(CMC)(±) |
|---|---|---|---|---|---|
| 10 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure) | AC Voltage, Fluke 5790A | Direct method | 10 V(20 kHz-100 kHz) to 500 V(10 kHz-100 kHz) | 0.009 % to 0.03 % |
| 11 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure) | AC Voltage, Fluke 5790A | direct method | 1mV to 10mV (10 Hz-40 Hz) | 0.44 % to 0.038 % |
| 12 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure) | AC Voltage, Fluke 5790A | Direct Method | 1V to 1000 V(40 Hz-20 kHz) | 0.008 % to 0.015 % |
| 13 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure) | AC Voltage, Fluke 5790A | Direct method | 1V to 10 V (10 kHz-100 kHz) | 0.016 % to 0.009% |
| 14 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure) | AC Voltage, Fluke 5790A | direct method | 1 mV to 10 mV(100 kHz- 1MHz) | 0.44 % to 0.19 % |

# SCOPE OF ACCREDITATION

**Laboratory Name :** TEKTRONIX INDIA PVT LTD, SALARPURIA PREMIA, SURVEY NO 16, KADUBEESANAHALLI, VARTHUR HOBLI, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

**Accreditation Standard** ISO/IEC 17025:2017

**Certificate Number** CC-2130 **Page No** 30 of 50

**Validity** 22/05/2020 to 21/05/2022 **Last Amended on** -

| S.No | Discipline / Group | Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum | Calibration or Measurement Method or procedure | Measurement range and additional parameters where applicable(Range and Frequency) | * Calibration and Measurement Capability(CMC)(±) |
|---|---|---|---|---|---|
| 15 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Measure) | AC Voltage, Fluke 8508A 5790A | direct method | 1mV to 10 mV(40 Hz- 20 KHz) | 0.17 % to 0.023 % |
| 16 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source) | AC current, Fluke 5522A | direct method, | 10 A to 20 A(40Hz-1kHz) | 0.059 % to 0.20 % |
| 17 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source) | AC Current, Fluke 5522A with 5500A coil | Direct method | 20A A to 1000 (@50Hz) A | 0.35 % to 0.77 % |
| 18 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source) | AC Current, Fluke 5720A | direct method | 100uA to 1mA (40 Hz-1kHz) | 0.109 % to 0.024 % |
| 19 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source) | AC Current, Fluke 5730A | Direct method | 100 mA to 1 A(40Hz-1kHz) | 0.03 % to 0.04 % |

# SCOPE OF ACCREDITATION

**Laboratory Name :** TEKTRONIX INDIA PVT LTD, SALARPURIA PREMIA, SURVEY NO 16, KADUBEESANAHALLI, VARTHUR HOBLI, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

**Accreditation Standard** ISO/IEC 17025:2017

**Certificate Number** CC-2130 **Page No** 31 of 50

**Validity** 22/05/2020 to 21/05/2022 **Last Amended on** -

| S.No | Discipline / Group | Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum | Calibration or Measurement Method or procedure | Measurement range and additional parameters where applicable(Range and Frequency) | * Calibration and Measurement Capability(CMC)(±) |
|---|---|---|---|---|---|
| 20 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source) | AC Current, Fluke 5730A | direct method | 1mA to 100 mA (40Hz - 1 kHz) | 0.024 % to 0.026 % |
| 21 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source) | AC Current, Fluke 5730A | Direct method | 200uA to 100mA (10Hz-40Hz) | 0.11 % to 0.045 % |
| 22 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source) | AC Current, Fluke 5730A & 5725A | direct method | 20mA to 10 A(5kHz-10kHz) | 0.03 % to 0.42 % |
| 23 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source) | AC Current, Fluke 5730A &5725A | direct method | 20 mA to 10 A(1kHz-10 kHz) | 0.056 % to 0.11 % |
| 24 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source) | AC Current, Fluke 5730A, 5725A | Direct method, using AC shunts | 1A to 10 A (40Hz-1kHz) | 0.05 % to 0.059 % |
| 25 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source) | AC Voltage, Fluke 5730A | Direct method | 1 mV to 1 V(10 Hz-40 Hz) | 0.49 % to 0.052 % |

# SCOPE OF ACCREDITATION

**Laboratory Name :** TEKTRONIX INDIA PVT LTD, SALARPURIA PREMIA, SURVEY NO 16, KADUBEESANAHALLI, VARTHUR HOBLI, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

**Accreditation Standard** ISO/IEC 17025:2017

**Certificate Number** CC-2130 **Page No** 32 of 50

**Validity** 22/05/2020 to 21/05/2022 **Last Amended on** -

| S.No | Discipline / Group | Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum | Calibration or Measurement Method or procedure | Measurement range and additional parameters where applicable(Range and Frequency) | * Calibration and Measurement Capability(CMC)(±) |
|---|---|---|---|---|---|
| 26 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source) | AC Voltage, Fluke 5730A | direct method | 1mV to 2 mV (40 Hz - 1 kHz) | 0.6 % to 0.25 % |
| 27 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source) | AC Voltage, Fluke 5730A | Direct method | 20 mV to 20V(10 Hz-40 Hz) | 0.05 % to 0.03 % |
| 28 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source) | AC Voltage, Fluke 5730A | direct method | 20 V to 1000 V (40 Hz - 1 kHz) | 0.0065 % to 0.0090 % |
| 29 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source) | AC Voltage, Fluke 5730A | direct method | 20 V to 200V (10 Hz-40 Hz) | 0.03 % to 0.025 % |
| 30 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source) | AC Voltage, Fluke 5730A | direct method | 200 mV to 2V (40 Hz - 1 kHz) | 0.015 % to 0.006 % |
| 31 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source) | AC Voltage, Fluke 5730A | direct method | 200mV to 20V (100 kHz-1 MHz) | 0.46 % to 0.25 % |

# SCOPE OF ACCREDITATION

| | |
|---|---|
| **Laboratory Name :** | TEKTRONIX INDIA PVT LTD, SALARPURIA PREMIA, SURVEY NO 16, KADUBEESANAHALLI, VARTHUR HOBLI, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA |
| **Accreditation Standard** | ISO/IEC 17025:2017 |
| **Certificate Number** | CC-2130 |
| **Page No** | 33 of 50 |
| **Validity** | 22/05/2020 to 21/05/2022 |
| **Last Amended on** | - |

| S.No | Discipline / Group | Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum | Calibration or Measurement Method or procedure | Measurement range and additional parameters where applicable(Range and Frequency) | * Calibration and Measurement Capability(CMC)(±) |
|---|---|---|---|---|---|
| 32 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source) | AC Voltage, Fluke 5730A | direct method | 20mV to 200 mV (100 kHz-1 MHz) | 0.46 % to 0.27 % |
| 33 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source) | AC Voltage, Fluke 5730A | Direct method | 2mV to 20 mV(40 Hz - 1 kHz) | 0.25 % to 0.03 % |
| 34 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source) | AC Voltage, Fluke 5730A | Direct method | 2mV to 20mV(10 Hz-40 Hz) | 0.26 % to 0.05 % |
| 35 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source) | AC Voltage, Fluke 5730A | direct method | 2mV to 2 V (1 kHz - 100 kHz) | 0.45 % to 0.015 % |
| 36 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source) | AC Voltage, Fluke 5730A | direct method | 2mV (100 kHz - 1 MHz) to 20 mV (100 kHz - 1MHz) | 1.75 % to 0.46 % |
| 37 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source) | AC Voltage, Fluke 5730A | direct method | 2V to 20V (40 Hz - 1 kHz) | 0.006 % to 0.0065 % |

# SCOPE OF ACCREDITATION

| | |
|---|---|
| **Laboratory Name :** | TEKTRONIX INDIA PVT LTD, SALARPURIA PREMIA, SURVEY NO 16, KADUBEESANAHALLI, VARTHUR HOBLI, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA |
| **Accreditation Standard** | ISO/IEC 17025:2017 |
| **Certificate Number** | CC-2130 |
| **Page No** | 34 of 50 |
| **Validity** | 22/05/2020 to 21/05/2022 |
| **Last Amended on** | - |

| S.No | Discipline / Group | Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum | Calibration or Measurement Method or procedure | Measurement range and additional parameters where applicable(Range and Frequency) | * Calibration and Measurement Capability(CMC)(±) |
|---|---|---|---|---|---|
| 38 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source) | AC Voltage, Fluke 5730A, 5725A | direct method | 100 V to 500V (1 kHz - 100 kHz) | 0.02 % to 0.27 % |
| 39 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source) | AC Voltage,Fluke 5730A | direct method | 20 mV to 200mV (40 Hz - 1 kHz) | 0.03 % to 0.015 % |
| 40 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source) | AC Voltage,Fluke 5730A | direct method | 2V to 100V (1 kHz - 100 kHz) | 0.015 % to 0.02 % |
| 41 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source) | Capacitance, Capacitor Standard GR 1417 | Direct Method | 100mF to 1F (@ 1kHz) | 0.28 % to 0.66 % |
| 42 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source) | Capacitance, Fluke 5522A, Capacitor Standard GR 1417 | Direct method | 10 nF(@ 1kHz) to 1uF (@ 100Hz) | 0.41% |
| 43 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source) | Capacitance, Fluke 5522A, Capacitor Standard GR 1417 | Direct method | 1uF (@ 100kHz) to 100 mF(@ 1kHz) | 0.41 % to 0.28 % |

# SCOPE OF ACCREDITATION

| | |
|---|---|
| **Laboratory Name :** | TEKTRONIX INDIA PVT LTD, SALARPURIA PREMIA, SURVEY NO 16, KADUBEESANAHALLI, VARTHUR HOBLI, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA |
| **Accreditation Standard** | ISO/IEC 17025:2017 |
| **Certificate Number** | CC-2130 |
| **Page No** | 35 of 50 |
| **Validity** | 22/05/2020 to 21/05/2022 |
| **Last Amended on** | - |

| S.No | Discipline / Group | Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum | Calibration or Measurement Method or procedure | Measurement range and additional parameters where applicable(Range and Frequency) | * Calibration and Measurement Capability(CMC)(±) |
|---|---|---|---|---|---|
| 44 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source) | Capacitance, Fluke 5522A, Capacitor Standard GR 1417 | Direct Method | 220 pF(@ 1KHz) to 10nF (@ 1KHz) | 5.8 % to .41 % |
| 45 | ELECTRO-TECHNICAL-ALTERNATING CURRENT (< 1 GHZ) (Source) | Inductance, Standard Inductor GENRAD 1482 series | Direct method | 100 µH to 10 H | 0.3 % to 0.12 % |
| 46 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | Capacitance @ 1kHz, RLC Digi bridge Quadtech 1693 | Direct Method | 10 nF to 100 nF | 0.41 % to 0.042 % |
| 47 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | Capacitance @ 1KHz, RLC Digi bridge Quadtech 1693 | Direct method | 10 pF to 100 pF | 0.25 % to 0.21 % |
| 48 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | Capacitance @ 1kHz, RLC Digi bridge Quadtech 1693 | Direct method | 100 nF to 1000 nF | 0.042 % to 0.033 % |
| 49 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | Capacitance @ 1kHz, RLC Digi bridge Quadtech 1693 | Direct method | 100 pF to 10 nF | 0.21 % to 0.07 % |

# SCOPE OF ACCREDITATION

**Laboratory Name :** TEKTRONIX INDIA PVT LTD, SALARPURIA PREMIA, SURVEY NO 16, KADUBEESANAHALLI, VARTHUR HOBLI, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

**Accreditation Standard** ISO/IEC 17025:2017

**Certificate Number** CC-2130 **Page No** 36 of 50

**Validity** 22/05/2020 to 21/05/2022 **Last Amended on** -

| S.No | Discipline / Group | Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum | Calibration or Measurement Method or procedure | Measurement range and additional parameters where applicable(Range and Frequency) | * Calibration and Measurement Capability(CMC)(±) |
|---|---|---|---|---|---|
| 50 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | Capacitance @ 1KHz, RLC Digi bridge Quadtech 1693 | direct method | 1000 nF to 100 uF | 0.033 % to 0.32 % |
| 51 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC current, Agilent 3458 | direct method | 100 nA to 1 µA | 0.02 % to 0.0015 % |
| 52 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC current, Fluke 8508A, Fluke A40B Shunts, Vaiseshika 9410. | Direct method | 100 µA to 1 A | 0.0010 % to 0.0012 % |
| 53 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC current, Fluke 8508A, Fluke A40B Shunts, Vaiseshika 9410. | direct method | 20 A to 100 A | 0.32 % to 0.33 % |
| 54 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC current, Fluke 8508A, Fluke A40B Shunts, Vaiseshika 9410. Fluke 742 | Direct method | 1 µA to 100 µA | 0.0015 % to 0.0012 % |
| 55 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC current, Fluke 8508A, Fluke A40B Shunts, Vaiseshika 9410. Fluke 742 | direct method | 1 A to 20 A | 0.0012 % to 0.0047 % |

# SCOPE OF ACCREDITATION

**Laboratory Name :** TEKTRONIX INDIA PVT LTD, SALARPURIA PREMIA, SURVEY NO 16, KADUBEESANAHALLI, VARTHUR HOBLI, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

**Accreditation Standard** ISO/IEC 17025:2017

**Certificate Number** CC-2130 **Page No** 37 of 50

**Validity** 22/05/2020 to 21/05/2022 **Last Amended on** -

| S.No | Discipline / Group | Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum | Calibration or Measurement Method or procedure | Measurement range and additional parameters where applicable(Range and Frequency) | * Calibration and Measurement Capability(CMC)(±) |
|---|---|---|---|---|---|
| 56 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Voltage, Fluke 8508A | Direct Method | 10 mV to 100 mV | 0.0052 % to 0.0005 % |
| 57 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Voltage, Fluke 8508A | direct method | 100 µV to 1 mV | 0.037 % to 0.0082 % |
| 58 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Voltage, Fluke 8508A | Direct Method | 100 mV to 1000 V | 0.0005 % to 0.00053 % |
| 59 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | DC Voltage, Fluke 8508A, 80K-40, Fluke 752, Null detector, DC Ref Std, Fluke 7000N | Direct Method | 1 mV to 10 mV | 0.004 % to 0.00052 % |
| 60 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | Inductance, RLC Digi bridge Quadtech 1693 | direct method | 1 H to 10 H | 0.041 % to 0.22 % |
| 61 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | Inductance, RLC Digi bridge Quadtech 1693 | direct method | 10 mH to 1 H | 0.23 % to 0.041 % |

# SCOPE OF ACCREDITATION

**Laboratory Name :** TEKTRONIX INDIA PVT LTD, SALARPURIA PREMIA, SURVEY NO 16, KADUBEESANAHALLI, VARTHUR HOBLI, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

**Accreditation Standard** ISO/IEC 17025:2017

**Certificate Number** CC-2130 **Page No** 38 of 50

**Validity** 22/05/2020 to 21/05/2022 **Last Amended on** -

| S.No | Discipline / Group | Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum | Calibration or Measurement Method or procedure | Measurement range and additional parameters where applicable(Range and Frequency) | * Calibration and Measurement Capability(CMC)(±) |
|---|---|---|---|---|---|
| 62 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | Inductance, RLC Digi bridge Quadtech 1693 | direct method | 100 µH to 10 mH | 0.22 % to 0.23 % |
| 63 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | Resistance, Fluke 8508A, | direct method | 1 Ohm to 10 Ohm | 0.0044 % to 0.0017 % |
| 64 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | Resistance, Fluke 8508A, | direct method | 10 M Ohm to 100 M Ohm | 0.004 % to 0.0198 % |
| 65 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | Resistance, Fluke 8508A, | direct method | 10 Ohm to 100 Ohm | 0.0017 % to 0.0015 % |
| 66 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | Resistance, Fluke 8508A, | direct method | 100 K Ohm to 10 M Ohm | 0.0033 % to 0.004 % |
| 67 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | Resistance, Fluke 8508A, | direct method | 100 M Ohm to 1 G Ohm | .0198 % to .17 % |

# SCOPE OF ACCREDITATION

| | |
|---|---|
| **Laboratory Name :** | TEKTRONIX INDIA PVT LTD, SALARPURIA PREMIA, SURVEY NO 16, KADUBEESANAHALLI, VARTHUR HOBLI, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA |
| **Accreditation Standard** | ISO/IEC 17025:2017 |
| **Certificate Number** | CC-2130 |
| **Page No** | 39 of 50 |
| **Validity** | 22/05/2020 to 21/05/2022 |
| **Last Amended on** | - |

| S.No | Discipline / Group | Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum | Calibration or Measurement Method or procedure | Measurement range and additional parameters where applicable(Range and Frequency) | * Calibration and Measurement Capability(CMC)(±) |
|---|---|---|---|---|---|
| 68 | ELECTRO-TECHNICAL-DIRECT CURRENT (Measure) | Resistance, Fluke 8508A, | direct method | 100 Ohm to 100 K Ohm | 15 ppm to 33 ppm |
| 69 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Current, Fluke 5730A, Fluke 5720A | Direct Method | 100 µA to 1 mA | 117 ppm to 50 ppm |
| 70 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Current, Fluke 5730A | Direct method | 1 mA to 1 A | 15 ppm |
| 71 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Current, Fluke 5730A | direct method | 10 µA to 100 uA | 74 ppm to 117 ppm |
| 72 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Current, Fluke 5730A, Fluke 5522A | direct method | 10 A to 20 A | 472 ppm to 1400 ppm |
| 73 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Current, Fluke 5730A, Fluke 5522A with 5500A Coil | direct method | 20 A to 1000 A | 0.35 % to 0.77 % |

# SCOPE OF ACCREDITATION

| | |
|---|---|
| **Laboratory Name :** | TEKTRONIX INDIA PVT LTD, SALARPURIA PREMIA, SURVEY NO 16, KADUBEESANAHALLI, VARTHUR HOBLI, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA |
| **Accreditation Standard** | ISO/IEC 17025:2017 |
| **Certificate Number** | CC-2130 |
| **Page No** | 40 of 50 |
| **Validity** | 22/05/2020 to 21/05/2022 |
| **Last Amended on** | - |

| S.No | Discipline / Group | Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum | Calibration or Measurement Method or procedure | Measurement range and additional parameters where applicable(Range and Frequency) | * Calibration and Measurement Capability(CMC)(±) |
|---|---|---|---|---|---|
| 74 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Current, Fluke 5730A, Fluke 5725A | direct method | 1 A to 10 A | 110 ppm to 470 ppm |
| 75 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Voltage, Fluke 5730A | Direct method | 1 mV to 100 mV | 5 ppm |
| 76 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Voltage, Fluke 5730A, 5720A, Fluke 742 with divider, 8508A Null detector | Direct method | 100 mV to 100 V | 5 ppm to 5.3 ppm |
| 77 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | DC Voltage, Fluke 5730A, 5720A, Fluke 742 with divider, 8508A Null detector | Direct method | 100 V to 1000 V | 2 ppm |
| 78 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Resistance, 742A-10 | DIRECT METHOD | 10 Ohm | 2 ppm |
| 79 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Resistance, Fluke 5730A and 5522A | direct method | 1 Ohm to 10 Ohm | 0.011 % to 0.0099 % |

# SCOPE OF ACCREDITATION

**Laboratory Name :** TEKTRONIX INDIA PVT LTD, SALARPURIA PREMIA, SURVEY NO 16, KADUBEESANAHALLI, VARTHUR HOBLI, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

**Accreditation Standard** ISO/IEC 17025:2017

**Certificate Number** CC-2130 **Page No** 41 of 50

**Validity** 22/05/2020 to 21/05/2022 **Last Amended on** -

| S.No | Discipline / Group | Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum | Calibration or Measurement Method or procedure | Measurement range and additional parameters where applicable(Range and Frequency) | * Calibration and Measurement Capability(CMC)(±) |
|---|---|---|---|---|---|
| 80 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Resistance, Fluke 5730A and 5522A | DIRECT METHOD | 10 Ohm to 100 Ohm | 0.009 % to 0.0128 % |
| 81 | ELECTRO-TECHNICAL-DIRECT CURRENT (Source) | Resistance, Fluke 5730A and 5522A | DIRECT METHOD | 100 M Ohm to 1 G Ohm | 136 ppm to 322 ppm |
| 82 | ELECTRO-TECHNICAL-OTHERS (Measure) | Phase Angle (V-V) | Phase Meter , Clark Hess 6000 by Direct method | - 180 ° to +180 ° | 0.034° |
| 83 | ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure) | Amplitude Modulation With CF:1GHz (rate 1kHz) | Measuring Receiver HP 8902A by direct method | Modulation Depth: 10 % to 90 % | 3.5 % to 3.6 % |
| 84 | ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure) | Frequency Modulation at CF: 1GHz | Measuring Receiver, HP 8902A by direct method | FM Deviation 10 kHz to 200 kHz | 6.0 % to 6.1 % |

# SCOPE OF ACCREDITATION

| | |
|---|---|
| **Laboratory Name :** | TEKTRONIX INDIA PVT LTD, SALARPURIA PREMIA, SURVEY NO 16, KADUBEESANAHALLI, VARTHUR HOBLI, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA |
| **Accreditation Standard** | ISO/IEC 17025:2017 |
| **Certificate Number** | CC-2130 |
| **Validity** | 22/05/2020 to 21/05/2022 |



**Last Amended on** -

| S.No | Discipline / Group | Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum | Calibration or Measurement Method or procedure | Measurement range and additional parameters where applicable(Range and Frequency) | * Calibration and Measurement Capability(CMC)(±) |
|---|---|---|---|---|---|
| 85 | ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure) | RF Attenuation at 100 kHz to 43 GHz | E8257D,MG3694 C SignalGenerators and Power meters with Sensors 8487D & NRPZ-55 by Comparison Method | 1 dB to 50 dB | 0.25 dB to 0.45 dB |
| 86 | ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure) | RF Frequency | Frequency Counter 53132 A & R&S FW 43 Spectrum Analyser by Direct Method | 1 Hz to 20 GHz | 0.058 ppm to 0.0029 ppm |
| 87 | ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure) | RF Frequency | Frequency Counter 53151 A & R&S FW 43 Spectrum Analyser by Direct Method | 20 GHz to 43.5 GHz | 0.0029 ppm to 0.0058 ppm |
| 88 | ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure) | RF Power @ 100 kHz to 40 GHz | Keysight Power meter with 8487D Power sensor and Power meter with NRP- 50 T Power sensor by Direct/ Comparison method | +18 dBm to -70 dBm | 5.5 % to 8.7 % |

# SCOPE OF ACCREDITATION

| | |
|---|---|
| **Laboratory Name :** | TEKTRONIX INDIA PVT LTD, SALARPURIA PREMIA, SURVEY NO 16, KADUBEESANAHALLI, VARTHUR HOBLI, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA |
| **Accreditation Standard** | ISO/IEC 17025:2017 |
| **Certificate Number** | CC-2130 |
| **Page No** | 43 of 50 |
| **Validity** | 22/05/2020 to 21/05/2022 |
| **Last Amended on** | - |

| S.No | Discipline / Group | Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum | Calibration or Measurement Method or procedure | Measurement range and additional parameters where applicable(Range and Frequency) | * Calibration and Measurement Capability(CMC)(±) |
|---|---|---|---|---|---|
| 89 | ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure) | RF Power at > 40 GHz to 50 GHz | Keysight Power meter with 8487D Power sensor and Power meter with NRZ-55 Power sensor by direct/ Comparison method | +15 dBm to -60 dBm | 5.6 % to 9 % |
| 90 | ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Measure) | VSWR @ 10 MHz to 50 GHz | Maury microwave loads 2611A Series, RF bridge 560-97N-1, Type-N Calibration Kit Agilent 85056A Mechanical Calibration kit (DC-50GHz) by Comparison method | 1.05 to 2.0 | 0.32 LU to 0.62 LU |
| 91 | ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source) | Oscilloscope Amplitude (DC Signal) | Fluke 9500 Scope calibrator with 9530 Head by Direct Method | 1 mV to 100 mV | 0.21 % to 0.06 % |
| 92 | ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source) | Oscilloscope Amplitude (DC Signal) | Fluke 9500 Scope calibrator with 9530 Head by Direct Method | 100 mV to 190 V | 0.06 % to 0.03 % |

# SCOPE OF ACCREDITATION

| | |
|---|---|
| **Laboratory Name :** | TEKTRONIX INDIA PVT LTD, SALARPURIA PREMIA, SURVEY NO 16, KADUBEESANAHALLI, VARTHUR HOBLI, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA |
| **Accreditation Standard** | ISO/IEC 17025:2017 |
| **Certificate Number** | CC-2130 |
| **Page No** | 44 of 50 |
| **Validity** | 22/05/2020 to 21/05/2022 |
| **Last Amended on** | - |

| S.No | Discipline / Group | Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum | Calibration or Measurement Method or procedure | Measurement range and additional parameters where applicable(Range and Frequency) | * Calibration and Measurement Capability(CMC)(±) |
|---|---|---|---|---|---|
| 93 | ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source) | Oscilloscope Bandwidth with Reference @50 kHz and 10 MHz | Anritsu MG3694C Signal Generator with R&S Power meter NRP 50 T and E 8257 D Signal Generator by direct method | >1 GHz to 18 GHz | 0.26 dB to 0.35 dB |
| 94 | ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source) | Oscilloscope Bandwidth with Reference @50 kHz and 10 MHz | Fluke 9500 Scope calibrator with 9530 Head by Direct Method | 10 MHz to 1 GHz | 0.22 dB to 0.26 dB |
| 95 | ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source) | Oscilloscope Scope Bandwidth with Reference @50 kHz and 10 MHz | Anritsu MG3694C Signal Generator with R&S Power meter NRP 50 T and E 8257 D Signal Generator by direct method | >18 GHz to 26 GHz | 0.35 dB to 0.45 dB |
| 96 | ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source) | Oscilloscope Time Base | Fluke 9500 Scope calibrator with 9530 Head by Direct Method | 1 nS to 5 S | 1 ppm to 3.5 ppm |

# SCOPE OF ACCREDITATION

| | |
|---|---|
| **Laboratory Name :** | TEKTRONIX INDIA PVT LTD, SALARPURIA PREMIA, SURVEY NO 16, KADUBEESANAHALLI, VARTHUR HOBLI, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA |
| **Accreditation Standard** | ISO/IEC 17025:2017 |
| **Certificate Number** | CC-2130 |
| **Page No** | 45 of 50 |
| **Validity** | 22/05/2020 to 21/05/2022 |
| **Last Amended on** | - |

| S.No | Discipline / Group | Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum | Calibration or Measurement Method or procedure | Measurement range and additional parameters where applicable(Range and Frequency) | * Calibration and Measurement Capability(CMC)(±) |
|---|---|---|---|---|---|
| 97 | ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source) | RF Attenuation at 100 kHz to 18 GHz | HP 8496B and HP8494 B Step Attenuator by direct method | 1 dB to 50 dB | 0.25 dB to 0.45 dB |
| 98 | ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source) | RF Frequency | Keysight Signal Generator E8257D by Direct Method | 1 Hz to 20 GHz | 0.058 ppm to 0.0029 ppm |
| 99 | ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source) | RF Frequency | Keysight Signal Generator E8257D | 20 GHz to 43.5 GHz | 0.0029 ppm to 0.0058 ppm |
| 100 | ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source) | RF Power @ >40 GHz to 50 GHz | Keysight E8257D and Anritsu MG 3694 C RF Signal Generator with Keysight Power meter with 8487D Power sensor and Power meter with NRZ-55 Power sensor by direct method | +15 dBm to -60 dBm | 7.33 % to 9 % |

# SCOPE OF ACCREDITATION

| | |
|---|---|
| **Laboratory Name :** | TEKTRONIX INDIA PVT LTD, SALARPURIA PREMIA, SURVEY NO 16, KADUBEESANAHALLI, VARTHUR HOBLI, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA |
| **Accreditation Standard** | ISO/IEC 17025:2017 |
| **Certificate Number** | CC-2130 |
| **Page No** | 46 of 50 |
| **Validity** | 22/05/2020 to 21/05/2022 |
| **Last Amended on** | - |

| S.No | Discipline / Group | Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum | Calibration or Measurement Method or procedure | Measurement range and additional parameters where applicable(Range and Frequency) | * Calibration and Measurement Capability(CMC)(±) |
|---|---|---|---|---|---|
| 101 | ELECTRO-TECHNICAL-RF/MICROWAVE (1 GHZ AND ABOVE) (Source) | RF Power @ 100 kHz to 40 GHz | Keysight E8257D and Anritsu MG 3694 C RF Signal Generator with Keysight Power meter with 8487D Power sensor and Power meter with NRZ-55 Power sensor by direct method | +18 dBm to -70 dBm | 5.5 % to 8.81 % |
| 102 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | Temperature Simulation, Fluke 8508A,/Zero bath | direct method | E type (-) 250°C to 1000°C | 0.03°C |
| 103 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | Temperature Simulation, Fluke 8508A,/Zero bath | direct method | J type (-) 200°C to 1200°C | 0.014°C |
| 104 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | Temperature Simulation, Fluke 8508A,/Zero bath | Direct Method | K type (-) 200°C to 1372°C | 0.018°C |
| 105 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | Temperature Simulation, Fluke 8508A,/Zero bath | direct method | N type (-) 200°C to 1300°C | 0.026°C |

# SCOPE OF ACCREDITATION

**Laboratory Name :** TEKTRONIX INDIA PVT LTD, SALARPURIA PREMIA, SURVEY NO 16, KADUBEESANAHALLI, VARTHUR HOBLI, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

**Accreditation Standard** ISO/IEC 17025:2017

**Certificate Number** CC-2130 **Page No** 47 of 50

**Validity** 22/05/2020 to 21/05/2022 **Last Amended on** -

| S.No | Discipline / Group | Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum | Calibration or Measurement Method or procedure | Measurement range and additional parameters where applicable(Range and Frequency) | * Calibration and Measurement Capability(CMC)(±) |
|---|---|---|---|---|---|
| 106 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | Temperature Simulation, Fluke 8508A,/Zero bath | direct method | R type 0 °C to 1750°C | 0.23°C |
| 107 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | Temperature Simulation, Fluke 8508A,/Zero bath | direct method | RTD (-) 200 °C to 800 °C | 0.014°C |
| 108 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | Temperature Simulation, Fluke 8508A,/Zero bath | direct method | S type 0°C to 1750°C | 0.13°C |
| 109 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Measure) | Temperature Simulation, Fluke 8508A,/Zero bath | Direct method | T type (-) 250°C to 400°C | 0.015°C |
| 110 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | Temperature Simulation, Fluke 5522A | Direct Method | J type (-) 200 °C to 1200 °C | 0.32°C |
| 111 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | Temperature Simulation, Fluke 5522A | Direct Method | K type (-)200 °C to 1372 °C | 0.47°C |

# SCOPE OF ACCREDITATION

**Laboratory Name :** TEKTRONIX INDIA PVT LTD, SALARPURIA PREMIA, SURVEY NO 16, KADUBEESANAHALLI, VARTHUR HOBLI, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA

**Accreditation Standard** ISO/IEC 17025:2017

**Certificate Number** CC-2130 **Page No** 48 of 50

**Validity** 22/05/2020 to 21/05/2022 **Last Amended on** -

| S.No | Discipline / Group | Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum | Calibration or Measurement Method or procedure | Measurement range and additional parameters where applicable(Range and Frequency) | * Calibration and Measurement Capability(CMC)(±) |
|---|---|---|---|---|---|
| 112 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | Temperature Simulation, Fluke 5522A | direct method | N type (-) 200 °C to 1300 °C | 0.47°C |
| 113 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | Temperature Simulation, Fluke 5522A | direct method | R type 0°C to 1750°C | 0.67°C |
| 114 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | Temperature Simulation, Fluke 5522A | Direct Method | RTD (-) 200 °C to 800 °C | 0.37°C |
| 115 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | Temperature Simulation, Fluke 5522A | direct method | S type 0 °C to 1750 °C | 0.56°C |
| 116 | ELECTRO-TECHNICAL-TEMPERATURE SIMULATION (Source) | Temperature Simulation, Fluke 5522A | direct method | T Type (-)250 °C to 400 °C | 0.74°C |
| 117 | ELECTRO-TECHNICAL-TIME & FREQUENCY (Measure) | Time Period, Counter Tektronix MCA 3040 | direct method | 1 nS to 5 S | 1 ppm to 0.8 ppm |

# SCOPE OF ACCREDITATION

| | |
|---|---|
| **Laboratory Name :** | TEKTRONIX INDIA PVT LTD, SALARPURIA PREMIA, SURVEY NO 16, KADUBEESANAHALLI, VARTHUR HOBLI, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA |
| **Accreditation Standard** | ISO/IEC 17025:2017 |
| **Certificate Number** | CC-2130 |
| **Validity** | 22/05/2020 to 21/05/2022 |



**Last Amended on** -

| S.No | Discipline / Group | Measurand or Reference Material/Type of instrument or material to be calibrated or measured / Quantity Measured /Instrum | Calibration or Measurement Method or procedure | Measurement range and additional parameters where applicable(Range and Frequency) | * Calibration and Measurement Capability(CMC)(±) |
|---|---|---|---|---|---|
| 118 | THERMAL-SPECIFIC HEAT & HUMIDITY | Specific Heat & Humidity, °C &%RH, Thrmo Hygrometer, Environmental chambers, Temperature/ Humidity Indicator, Temperature Chamber | Comparison Method | 0 °C to 50 °C at 50%RH | 0.94°C |
| 119 | THERMAL-SPECIFIC HEAT & HUMIDITY | Specific Heat & Humidity, °C &%RH, Thrmo Hygrometer, Environmental chambers, Temperature/ Humidity Indicator, Temperature Chamber | Comparison method | 20 %RH to 95 %RH at 25°C | 1.45%RH |
| 120 | THERMAL-TEMPERATURE | Oven, Bath (single point) / Using S type Thermocouple with Data logger. | Comparison Method | 400 °C to 1000 ° C | 1.74°C |
| 121 | THERMAL-TEMPERATURE | Oven, Bath, Dry Well Furnace (Single Point) / RTD with data logger. | Comparison method | -40 °C to 400 ° C | 1.52°C |
| 122 | THERMAL-TEMPERATURE | Temperature Chamber, Oven, Furnace (multipoint) / Using RTD with Logger 2638A . | Comparision method | -70 ° C to 180 ° C | 0.83° C |

# SCOPE OF ACCREDITATION

| | | | |
|---|---|---|---|
| **Laboratory Name :** | TEKTRONIX INDIA PVT LTD, SALARPURIA PREMIA, SURVEY NO 16, KADUBEESANAHALLI, VARTHUR HOBLI, BENGALURU, BENGALURU URBAN, KARNATAKA, INDIA | | |
| **Accreditation Standard** | ISO/IEC 17025:2017 | | |
| **Certificate Number** | CC-2130 | **Page No** | 50 of 50 |
| **Validity** | 22/05/2020 to 21/05/2022 | **Last Amended on** | - |

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