



CERTIFICATE OF ACCREDITATION

This is to attest that

RICI COMPANY LTD.

7067, SALMAN AL-FARISI, AL-KHALIDIYA, AL-JANUBIYAH, UNIT NO. 16, EASTERN PROVINCE
AD-DAMMAM 32225, KINGDOM OF SAUDI ARABIA

Calibration Laboratory CL-151

has met the requirements of AC204, *IAS Accreditation Criteria for Calibration Laboratories*, and has demonstrated compliance with ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories*. This organization is accredited to provide the services specified in the scope of accreditation.

Effective Date September 15, 2023

Expiration Date February 1, 2025



A handwritten signature in black ink that reads 'Raj Nathan'.

President

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

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RICI COMPANY LTD.

www.ricionline.com

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5611

Accredited to ISO/IEC 17025:2017

Effective Date September 15, 2023

CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*

| MEASURED QUANTITY or DEVICE TYPE CALIBRATED | RANGE | UNCERTAINTY ^{1,2} (±) | CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT (OPTIONAL) |
|---|---|--------------------------------|--|
| <i>Dimensional</i> | | | |
| Calipers | | | |
| Dial and Vernier | 0 mm to 300 mm | 7.5 µm | Gage blocks |
| Digital | 0 mm to 300 mm | 7.5 µm | Gage Blocks with accessories |
| Dial / Digital / Vernier | 300 mm to 1000 mm 1000 mm to 2000 mm | 16 µm 30 µm | LABC-001 |
| Plunger Type Indicators | | | |
| Dial | 0 mm to 25 mm | 6 µm | Dial Gage Calibrator LABC-002 |
| Digital | 0 mm to 25 mm | 2 µm | |
| Outside Micrometers | | | |
| Plain Anvil | 0 mm to 25 mm | 6 µm | Gage blocks |
| Digital | 0 mm to 25 mm | 0.2 µm | Gage Blocks with accessories |
| Plain Anvil / Digital | 25 mm to 150 mm 150 mm to 1000 mm | 2.2 µm 14.5 µm | LABC-003 |
| External / Outside Micrometer | | | ULM 600 LABC-159 |
| Anvil | 0 mm to 25 mm | 6.0 µm | |
| Digital | 0 mm to 25 mm | 1.1 µm | |
| Plain Anvil / Digital | 25 mm to 150 mm | 2.6 µm | |
| Inside Micrometer | 0 mm to 600 mm | 10 µm | ULM 600 LABC-160 |

* If information in this CMC is presented in non-SI units, the conversion factors stated in NIST Special Publication 811 "Guide for the Use of the International System of Units (SI)" apply.

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|---|---|--------------------------------|--|
| Coating Thickness Gauge | 0 µm to 1600 µm | 0.5 µm | Coating Thickness Standards LABC-014 |
| Height Gauges | 0 mm to 300 mm 300 mm to 1000 mm 1000 mm to 2000 mm | 6.2 µm 15 µm 30 µm | Gage Blocks LABC-093 |
| Depth Gauges | 0 mm to 300mm | 6.2 µm | Gage Blocks with accessories LABC-076 |
| Snap Gauges | 0 mm to 500 mm | 14 µm | Gage Blocks with accessories LABC-083 |
| Measuring Tapes | 0 mm to 50000 mm | 0.57 mm | Measuring Tape Calibrator, Reference Measuring Tape LABC-045 |
| Rulers / Measuring Scales | 0 mm to 1000 mm | 0.06 mm | Measuring Tape Calibrator, Reference Measuring Tape LABC-045 |
| Thickness Gauge | 0 µm to 1000 µm 0 mm to 10 mm 0 mm to 100 mm | 0.57 µm 0.59 µm 0.061 mm | Gage Block LABC-034 |
| Sieves Fine Coarse | Up to 850 µm 1 mm to 200 mm | 0.023 µm 0.041 mm | Reference Calibrator, Digital Caliper LABC-049 |
| Bevel / Digital Protractors | 0° to 90° | 0.030° | Angle Gage Block Set LABC-025 |
| Angle Gauges | 0° to 90° | 0.030° | Angle Gage Block Set LABC-025 |
| Profile Projector/ Measuring Microscopes | 0 mm to 200 mm | 0.63 µm | Stage Micrometers/ Glass Scale, Gage Blocks LABC-132 |
| Bore Gauges | 0 mm to 25 mm | 1.9 µm | Dial Gauge Calibrator, Gauge Blocks with Accessories LABC-078 |
| Dial Gauge Calibrator | 0.5 mm to 25 mm | 0.38 µm | Gauge Blocks with Accessories LABC-099 |
| Inside Micrometer | 25 mm to 150 mm 150 mm to 1000 mm | 2.3 µm 15 µm | Inside Micrometer Checker, Gauge Blocks with Accessories LABC-038 |
| Slip Gauges | 0 mm to 25 mm 25 mm to 50 mm 50 mm to 100 mm | 0.40 µm 0.61 µm 1.0 µm | Slip Gauge Comparator LABC-166 |

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|---|--|---|--|
| Plain Snap / Gap Gage (GO / NO-GO) | 0 mm to 8 mm 8 mm to 200 mm 200 mm to 400 mm | 2.0 µm 3.1 µm 5.7 µm | ULM-600 LABC-146 |
| Plain Plug Gauge (GO/NO-GO) | 0 mm to 25 mm 25 mm to 50 mm 50 mm to 100 mm 100 mm to 300 mm 300 mm to 600 mm | 0.38 µm 0.96 µm 1.9 µm 6.0 µm 12 µm | ULM 600 LABC-147 |
| Ring Gauge (GO/NO-GO) | 0 mm to 8 mm 8 mm to 200 mm 200 mm to 600 mm | 2.0 µm 3.1 µm 8.3 µm | ULM 600 LABC-148 |
| Thread Plug Gauge (GO/NO-GO) | 0 mm to 600 mm Effective / Pitch Diameter Major Diameter | 8.2 µm 8.1 µm | ULM 600 LABC-149 |
| Thread Ring Gauge (GO/NO-GO) | Effective / Pitch Diameter 0 mm to 6 mm Major Diameter 0 mm to 25 mm 25 mm to 50 mm 50 mm to 100 mm 100 mm to 300 mm 300 mm to 400 mm | 0.16 µm 0.37 µm 0.70 µm 1.4 µm 4.5 µm 6.2 µm | ULM 600 LABC-150 |
| Gauge Blocks | 0 mm to 500 mm | 6.6 µm | ULM 600 LABC-166 |
| Length Bar | 0 mm to 25 mm 25 mm to 50 mm 50 mm to 100 mm 100 mm to 300 mm 300 mm to 500 mm | 0.14 µm 0.19 µm 0.24 µm 1.8 µm 3.0 µm | ULM 600 LABC-152 |
| Plain Ring Gauge | 0 mm to 8 mm 8 mm to 200 mm 200 mm to 600 mm | 2.0 µm 3.1 µm 8.1 µm | ULM 600 LABC-153 |
| Setting Cylindrical Master | 0 mm to 25 mm 25 mm to 50 mm 50 mm to 100 mm 100 mm to 300 mm 300 mm to 400 mm | 0.49 µm 0.97 µm 1.9 µm 6.0 µm 8.1 µm | ULM 600 LABC-154 |
| Measuring Pins | 0 mm to 20 mm | 0.29 µm | ULM 600 LABC-155 |
| Plunger Type Dial Gauge | 0 mm to 100 mm | 5.9 µm | ULM 600 LABC-156 |
| Lever Type Dial Gauge | 0 mm to 1 mm | 5.7 µm | ULM 600 LABC-157 |
| Bore Gauge | 0 mm to 100 mm | 1.5 µm | ULM 600 |

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|---|---|--|--|
| | | | LABC-158 |
| Plain Taper Plug Gauge | Diameter 0 mm to 600 mm | 8.1 µm | ULM 600 LABC-162 |
| Taper Ring Gauge | 0 mm to 8 mm 8 mm to 200 mm 200 mm to 400 mm | 2.0 µm 3.1 µm 5.8 µm | ULM 600 LABC-163 |
| Taper Thread Plug Gauge | Effective / Pitch Diameter 0 mm to 600 mm Major Diameter 0 mm to 600 mm | 12 µm 8.1 µm | ULM 600 LABC-164 |
| Taper Thread Ring Gauge | Effective Diameter 0 mm to 8 mm 8 mm to 100 mm | 2.0 µm 2.0 µm | ULM 600 LABC-161 |
| Jigs and Fixtures Length Measurement | 0 mm to 25 mm 25 mm to 50 mm 50 mm to 100 mm 100 mm to 200 mm 200 mm to 300 mm 300 mm to 400 mm 400 mm to 500 mm 500 mm to 1000 mm 1000 mm to 2000 mm | 0.69 µm 0.92 µm 1.6 µm 3.9 µm 5.7 µm 7.6 µm 9.4 µm 20 µm 41 µm | ULM 600 / Slip Gauge Blocks / Long Slip Gauges LABC-171 |
| Mechanical | | | |
| Force-Compression | 0.0025 kN to 3000 kN | 0.2 % | Load Cells LABC-007 |
| Force-Tension | Up to 50 kN | 0.03 kN | Tensile Load cell LABC-168 |
| Proving Rings | 0 kN to 50 kN | 0.05 kN | Reference Load Cell with Indicator LABC-066 |
| Balances | 0 g to 210 g 201 g to 2.1 kg 2.1 kg to 8 kg 8 kg to 30 kg 30 kg to 100 kg 100 kg to 500 kg | 0.33 mg 6.7 mg 11 mg 77 mg 94 g 0.06 kg | Class E1, F1 Weights LABC-006 |
| Pressure Gauges | -1 bar to 10 bar 0 bar to 60 bar 0 bar to 100 bar 0 bar to 600 bar 0 bar to 1400 bar 0 bar to 2800 bar | 0.06 bar 0.07 bar 0.12 bar 0.22 bar 0.28 bar 1.6 bar | Dead Weight Tester, Test Pump with Reference Pressure Gauge LABC-004 |

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|---|---|---|---|
| Pressure Transmitter | -1 bar to 10 bar 0 bar to 60 bar 0 bar to 100 bar 0 bar to 600 bar 0 bar to 1400 bar 0 bar to 2800 bar | 0.06 bar 0.07 bar 0.12 bar 0.22 bar 0.28 bar 1.6 bar | Dead Weight Tester, Test Pump with Reference Pressure Gauge, Process Calibrator, HART/Fieldbus Communicator, Reference Multimeter LABC-103 (a&b) |
| Pressure Chart Recorder | -1 bar to 10 bar 0 bar to 60 bar 0 bar to 100 bar 0 bar to 600 bar 0 bar to 1400 bar 0 bar to 2800 bar | 0.06 bar 0.07 bar 0.12 bar 0.22 bar 0.28 bar 1.6 bar | Dead Weight Tester, Test Pump with Reference Pressure Gauge LABC-079 |
| Durometer (Shore Scale A) (Shore Scale D) | 0 shore to 100 shore 0 shore to 100 shore | 1.3 shore 1.3 shore | Rubber Hardness Tester Calibrator with Standard Weights LABC-059 |
| Hardness Testing Machines (Vicker) | HV 190 HV 208 HV 524 HV 720 HV 813 | 2.7 HV 2.9 HV 6.5 HV 5.8 HV 5.2 HV | Standard Test Blocks LABC-024 |
| Hardness Testing Machines (Rockwell, Brinell) | HRA HRB HRC HR15N HR30N HR45N HB3000 HB500 | 0.82 HRA 0.83 HRB 0.84 HRC 0.3 HR 0.3 HR 0.37 HR 4.2 HB 1.5 HB | Standard Test Blocks LABC-024 |
| Vacuum Gages | 0 inHg to 30 inHg | 0.008 inHg | Test pump and master gage LABC-005 |
| Safety Relief Valve | 0 psi to 860 psi 0 psi to 10,000 psi | 6.1 psi 6.1 psi | Test Pump and Standard Pressure gages LABC 017 |
| Torque Wrench | 0 N·m to 50 N·m 50 N·m to 250 N·m 250 N·m to 500 N·m 500 N·m to 1000 N·m | 0.14 N·m 0.71 N·m 1.4 N·m 3.1 N·m | Torque Wrench Calibrator & Transducers LABC-022 |
| Sound Level Meter @ 16 kHz | 94 dB to 114 dB | 0.31 dB | Acoustic Calibrator LABC-020 |
| Vibration Meter | Up to 20 m/s ² | 0.82 m/s ² | Vibration Calibrator LABC-021 |
| Asphalt Batch Plant | 1000 kg | 0.06 kg | Class M1 Standard Weights LABC-116 |

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|--|--|---|--|
| Concrete Batch Plant | 1000 kg | 0.06 kg | Class M1 Standard Weights LABC-116 |
| Volume | Up to 1000 L | 0.058 L | Reference Flow Meter LABC-128 |
| Pipettes/ Micropipettes (Gravimetric Method) | Up to 100 µL 100 µL to 300 µL 300 µL to 1 mL 1 mL to 2 mL 2 mL to 5 mL 5 mL to 10 mL 10 mL to 25 mL 25 mL to 50 mL 50 mL to 100 mL | 0.58 µL 0.71 µL 0.71 µL 0.71 µL 0.71 µL 0.71 µL 0.79 µL 1.1 µL 2.7 µL | Mass Comparators, Reference Thermometer LABC-123 |
| Burettes | Up to 500 µL 500 µL to 1 mL 1 mL to 2 mL 2 mL to 5 mL 5 mL to 10 mL 10 mL to 25 mL 25 mL to 50 mL 50 mL to 100 mL | 0.71 µL 0.71 µL 0.71 µL 0.71 µL 0.71 µL 0.79 µL 1.1 µL 2.7 µL | Mass Comparators, Reference Thermometer LABC-124 |
| Cylinders/ Beakers | 2 mL to 5 mL 5 mL to 10 mL 10 mL to 25 mL 25 mL to 50 mL 50 mL to 100 mL 500 mL to 1000 mL 1000 mL to 2000 mL 2000 mL to 10000 mL | 0.71 µL 0.71 µL 0.79 µL 1.1 µL 2.7 µL 25 µL 40 µL 0.25 mL | Mass Comparators, Reference Thermometer LABC-125 |
| Flasks | 2 mL to 5 mL 5 mL to 10 mL 10 mL to 25 mL 25 mL to 50 mL 50 mL to 100 mL 500 mL to 1000 mL | 0.71 µL 0.71 µL 0.79 µL 1.1 µL 2.7 µL 25.2 µL | Mass Comparators, Reference Thermometer LABC-126 |
| Pycnometers | Up to 1 mL 1 mL to 2 mL 2 mL to 5 mL 5 mL to 10 mL 10 mL to 25 mL 25 mL to 50 mL 50 mL to 100 mL | 0.71 µL 0.72 µL 0.72 µL 0.76 µL 1.1 µL 1.4 µL 2.7 µL | Mass Comparators, Reference Thermometer LABC-127 |

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|--|---|--|---|
| Pressure Calibrators / Pumps | 0 bar to 10 bar 10 bar to 60 bar 60 bar to 100 bar 100 bar to 600 bar 600 bar to 1400 bar 1400 bar to 2800 bar | 0.06 bar 0.07 bar 0.12 bar 0.22 bar 0.28 bar 1.6 bar | Dead weight tester, Test pump with reference pressure gauge LABC-130 |
| Pressure Generate ³ | 0 bar to 500 bar 500 bar to 825 bar 825 bar to 2800 bar | 0.64 bar 2.6 bar 6.3 bar | Ultra High Pressure Pneumatic Pump / Reference Digital Pressure Gauge LABC-169 |
| Pressure Measure ⁴ | 0 bar to 500 bar 500 bar to 825 bar 825 bar to 2800 bar | 0.64 bar 2.6 bar 6.3 bar | Reference Digital Pressure Gauge LABC-170 |
| Magnetometer/ Gauss Meters | 0 Gs to 50 Gs | 1.3 Gs | Gauss Meter Calibrator LABC-053 |
| Mass (Standard Weights) All Classes E1, E2, F1, F2, M1, M2 | 20 kg 10 kg 5 kg 2 kg 1 kg 500 g 200 g 100 g 50 g 20 g 10 g 5 g 2 g 1 g 500 mg 200 mg 100 mg 50 mg 20 mg 10 mg 5 mg 2 mg 1 mg | 41 mg 14 mg 7.1 mg 2.9 mg 1.4 mg 0.72 mg 0.29 mg 0.14 mg 0.072 mg 0.031 mg 0.017 mg 0.10 mg 0.048 mg 0.002 mg 2.5 µg 1.6 µg 1.5 µg 1.2 µg 1.1 µg 0.9 µg 0.7 µg 0.7 µg | Mass Comparators, Class E1 Standard Weights LABC-088 |
| Hydrometers | 0.600 g/mL to 1.050 g/mL 0.600 g/mL to 1.050 g/mL | 0.0029 g/mL 0.00031 g/mL | Reference Solutions LABC-064 |
| Anemometers/ Air Meters (Air Velocity) | 25 ft/min to 9000 ft/min | 7 ft/min | Reference Air Meter, Wind Tunnel LABC-069 |
| Densitometers | 0 D to 14 D | 0.021 D | Reference Density Film LABC-068 |

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|---|--|--|---|
| Electromagnetic Yoke | Lifting Power 4.5 kg (AC) 10 lbf-ft | 0.0054 lbf-ft | Standard Dead Weight LABC 101 |
| Nuclear Density Gauges | Density: 1120 kg/m ³ to 2723 kg/m ³ | 0.95 kg/m ³ | Nuclear Validator Note: Models that will be calibrated: VPN Troloxer (3411, 3430, 3440, 3440+) Humboldt LABC 019 |
| Hydraulic Torque Wrench | 0 N·m to 1000 N·m 1000 N·m to 2000 N·m 2000 N·m to 4000 N·m 4000 N·m to 8000 N·m 8000 N·m to 30000 N·m 30000 N·m to 50000 N·m | 15 N·m 23 N·m 54 N·m 140 N·m 960 N·m 2000 N·m | Hydraulic Torque Assembly LABC-087 |
| Thermal | | | |
| Ovens | 0 °C to 250 °C | 0.6 °C | RTDs, Temperature Calibrator LABC-008 |
| | 0 °C to 400 °C | 0.21 °C | RTDs, Temperature Calibrator LABC-008 |
| Thermometers Dial Digital Dial/Digital | -10 °C to 200 °C | 0.30 °C | RTD, Dry Block, Oil Bath |
| | -40 °C to 200 °C | 0.21 °C | RTD, Dry Block, Oil Bath |
| | -40 °C to 140 °C 140 °C to 650 °C 650 °C to 1200 °C | 0.06 °C 0.13 °C 0.82 °C | RTD, Dry Block, Oil Bath, Temperature Calibrator LABC-011 (Digital) LABC-012 (Dial) |
| RTD | -40 °C to 140 °C | 0.06 °C | RTD, Dry Block, Oil Bath LABC-013 |
| | 140 °C to 650 °C | 0.13 °C | Universal Calibrator, Dry Block Oil Bath, Comparison to Standard RTD LABC-013 |
| | 650 °C to 1200 °C | 0.82 °C | RTD, Dry Block, Oil Bath LABC-013 |
| Water Baths | 0 °C to 90 °C | 0.2 °C | RTD, Temperature Calibrator LABC-009 |
| Furnaces | 0 °C to 1200 °C | 0.8 °C | Reference Thermocouple, Temperature Calibrator LABC-010 |
| Autoclaves | 0 °C to 150 °C | 0.12 °C | RTDs, Temperature Calibrator |

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|---|---|--|---|
| | | | LABC-036 |
| Incubators | 10 °C to 100 °C | 0.12 °C | RTDs, Temperature Calibrator LABC-067 |
| Hot Plates | 0 °C to 300 °C | 0.62 °C | Reference Surface Probe, Temperature Calibrator LABC-037 |
| Freezers/ Refrigerators | -80 °C to 100 °C | 0.12 °C | RTDs, Temperature Calibrator LABC-067 |
| Temperature Transmitter | -40 °C to 140 °C 140 °C to 650 °C 650 °C to 1200 °C | 0.06 °C 0.13 °C 0.76 °C | RTD, Dry Block, Oil Bath, Process Calibrator, HART/Fieldbus Communicator, Reference Multimeter LABC-070 (a &b) |
| Temperature Recorder | -40 °C to 140 °C 140 °C to 650 °C 650 °C to 1200 °C | 0.17 °C 0.36 °C 0.76 °C | RTD, Dry Block, Oil Bath, Temperature Calibrator LABC-032 |
| Temperature – Measure ⁴ | -40 °C to 140 °C 140 °C to 350 °C 350 °C to 650 °C 650 °C to 1200 °C | 0.035 °C 0.024 °C 0.71 °C 0.79 °C | RTD Sensors, Thermocouples LABC-067 |
| Infrared Thermometers | -40 °C to 140 °C 140 °C to 650 °C 650 °C to 1200 °C | 0.015 °C 0.14 °C 0.76 °C | Blackbody Sources LABC-027 |
| Thermo-Hygrometer | Temperature: 10 °C to 50 °C @ 50 % RH Humidity: 10 % to 90 % RH @ 23 °C | 0.11 °C 2.84 %RH | Temperature Humidity Chamber LABC-080 |
| Electrical – DC/LF | | | |
| Welding Machines | 0 A to 600 A 0 V to 50 V (DC) | 1.2 % of Setting 0.56 V | Check Master 9000 LABC-016 |
| Holiday Detector | 0 kV to 40 kV | 0.06 kV | Fluke High Voltage Probe, Digital Multimeter LABC-015 |
| DC Voltage –Generate ³ | 0 mV to 329.9999 mV 0.33 V to 3.299999 V 3.3 V to 32.99999 V 33 V to 329.9999 V 330 V to 1020.000 V | 0.4 µV 6.3 µV 0.12 mV 0.97 mV 3.5 mV | Multi Product Calibrator Fluke 5522A LABC-018 |

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| DC Voltage – Measure ⁴ | 0 mV to 100 mV 100 mV to 1 V 1 V to 10 V 10 V to 100 V 100 V to 1000 V | 0.0018 mV 0.003 mV 0.03 mV 0.0014 V 0.12 V | Precision Multimeter Fluke 8846A LABC-018 |
| DC Current – Generate ³ | 0 µA to 329.999 µA 0 mA to 3.29999 mA 0 mA to 32.9999 mA 0 mA to 329.999 mA 0 A to 1.09999 A 1.16 A to 2.99999 A 0 A to 10.9999 A 11 A to 20.5 A | 5.3 nA 35 nA 0.92 µA 8.8 µA 41 µA 0.11 mA 1.3 mA 7 mA | Multi Product Calibrator Fluke 5522A LABC-018 |
| Clamp meter | 0 to 1000 A (DC) (AC @ 60 Hz) | 0.067 A 0.071 A | Fluke 5500A / Coil (50 Turns) LABC-018 |
| DC Current – Measure ⁴ | 0 µA to 100 µA 100 µA to 1 mA 1 mA to 10 mA 10 mA to 100 mA 100 mA to 400 mA 400 mA to 1 A 1 A to 3 A 3A to 10 A | 0.012 µA 0.019 µA 1.3 µA 3.3 µA 0.039 mA 0.14 mA 1.1 mA 1.2 mA | Precision Multimeter Fluke 8846A LABC-018 |
| DC Resistance – Generate ³ | 0 kΩ to 1 kΩ 1 kΩ to 10 kΩ 10 kΩ to 100 kΩ 100 kΩ to 1 MΩ 1 MΩ to 10 MΩ 10 MΩ to 100 MΩ 100 MΩ to 1 GΩ | 4.3 mΩ 55 mΩ 0.46 Ω 8.8 Ω 150 Ω 17 kΩ 7.2 MΩ | Multi Product Calibrator Fluke 5522A Decade Resistance Box LABC-018 |
| DC Resistance – Measure ⁴ | 0 Ω to 100 Ω 100 Ω to 1 kΩ 1 kΩ to 10 kΩ 10 kΩ to 100 kΩ 100 kΩ to 1 MΩ 1 MΩ to 10 MΩ 10 MΩ to 100 MΩ 100 MΩ to 1 GΩ | 2.3 mΩ 0.015 Ω 0.16 Ω 1.5 Ω 0.14 kΩ 0.18 kΩ 0.044 MΩ 3.3 MΩ | Precision Multimeter Fluke 8846A LABC-018 |
| AC Voltage – Generate ³ | 1 mV to 32.999 mV (10 Hz to 450 kHz) 33 mV to 329.999 mV (10 Hz to 500 kHz) | 4.5 µV 14 µV | Multi Product Calibrator Fluke 5522A LABC-018 |

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| | 0.33 V to 3.29999 V (10 Hz to 450 kHz) | 34 µV | Multi Product Calibrator Fluke 5522A LABC-018 |
| | 3.3 V to 32.9999 V (10 Hz to 90 kHz) | 4.4 mV | |
| | 33 V to 329.999 V (45 Hz to 100 kHz) | 16 mV | |
| | 330 V to 1020 V (45 Hz to 8 kHz) | 39 mV | |
| AC Voltage – Measure ⁴ | 0 mV to 100 mV (3 Hz to 300 kHz) | 0.032 mV | Precision Multimeter Fluke 8846A LABC-018 |
| | 100 mV to 1 V (10 Hz to 300 kHz) | 0.70 mV | |
| | 1 V to 10 V (10 Hz to 300 kHz) | 2.8 mV | |
| | 10 V to 100 V (10 Hz to 300 kHz) | 0.026 V | |
| | 100 V to 1000 V (10 Hz to 300 kHz) | 0.039 V | |
| AC Current – Generate ³ | 29.00 µA to 329.99 µA (10 Hz to 30 kHz) | 29 nA | Multi Product Calibrator Fluke 5522A LABC-018 |
| | 0.33 mA to 3.2999 mA (10 Hz to 30 kHz) | 0.26 µA | |
| | 3.3 mA to 32.999 mA (10 Hz to 30 kHz) | 5 µA | |
| | 33 mA to 329.99 mA (10 Hz to 30 kHz) | 47 µA | |
| | 0.33 A to 1.09999 A (10 Hz to 10 kHz) | 0.38 mA | |
| | 1.1 A to 10.9999 A (10 Hz to 10 kHz) | 1.8 mA | |
| | 11 A to 20.5 A (45 Hz to 5 kHz) | 4.9 mA | |

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| AC Current – Measure ⁴ at 3 Hz to 10 kHz | 0 µA to 100 µA 1 µA to 1 mA 1 mA to 10 mA 10 mA to 100 mA 100 mA to 400 mA 400 mA to 1 A 1 A to 3 A 3 A to 10 A | 0.044 µA 0.31 µA 3.1 µA 3.2 µA 0.30 mA 0.30 mA 4.5 mA 4.5 mA | Precision Multimeter Fluke 8846A LABC-018 |
| Electrical Simulation of Thermocouples – Generate and Measure | | | Multi Product Calibrator Fluke 5522A (with TC measuring option) LABC -18 |
| Type B | 600 °C to 1820 °C | Generate: 0.12 °C Measure: 0.18 °C | |
| Type C | 0 °C to 2316 °C | Generate: 0.12 °C Measure: 0.18 °C | |
| Type E | -250 °C to 1000 °C | Generate: 0.097 °C Measure: 0.18 °C | |
| Type J | -210 °C to 1200 °C | Generate: 0.12 °C Measure: 0.18 °C | |
| Type K | -200 °C to 1372 °C | Generate: 0.12 °C Measure: 0.18 °C | |
| Type L | -200 °C to 900 °C | Generate: 0.097 °C Measure: 0.18 °C | |
| Type N | -200 °C to 1300 °C | Generate: 0.12 °C Measure: 0.18 °C | |
| Type R | 0 °C to 1767 °C | Generate: 0.12 °C Measure: 0.18 °C | |
| Type S | 0 °C to 1767 °C | Generate: 0.12 °C Measure: 0.18 °C | |
| Type T | -250 °C to 400 °C | Generate: 0.097 °C Measure: 0.18 °C | |
| Type U | -200 °C to 600 °C | Generate: 0.097 °C Measure: 0.18 °C | |
| Electrical Simulation of RTD – Generate | | | |
| Pt 385, 100 Ω | -200 °C to 800 °C | 0.012 °C | |
| Pt 385, 200 Ω | -200 °C to 630 °C | 0.012 °C | |
| Pt 385, 500 Ω | -200 °C to 630 °C | 0.012 °C | Temperature Calibrator Fluke 525B |

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| MEASURED QUANTITY or DEVICE TYPE CALIBRATED | RANGE | UNCERTAINTY ^{1,2} (±) | CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT (OPTIONAL) |
|---|--|---|--|
| Pt 385, 1000 Ω | -200 °C to 630 °C | 0.012 °C | LABC-018 |
| Capacitance – Generate ^{3,5} | (10 Hz to 10 kHz) 220.0 pF to 399.9 pF 0.4 nF to 1.0999 nF (10 Hz to 3 kHz) 1.16 nF to 3.2999 nF (10 Hz to 1 kHz) 3.3 nF to 10.9999 nF 11 nF to 32.999 nF 110 nF to 329.999 nF (10 Hz to 600 Hz) 0.33 μF to 1.09999 μF (10 Hz to 300 Hz) 1.16 μF to 3.299999 μF (10 Hz to 150 Hz) 3.3 μF to 10.9999 μF (10 Hz to 120 Hz) 11 μF to 32.9999 μF (10 Hz to 80 Hz) 33 μF to 109.9999 μF (0 Hz to 50 Hz) 110 μF to 329.999 μF (0 Hz to 20 Hz) 0.33 mF to 1.09999 mF (0 Hz to 6 Hz) 1.16 mF to 3.2999 mF (0 Hz to 2 Hz) 3.3 mF to 10.9999 mF (0 Hz to 0.6 Hz) 11 mF to 32.9999 mF (0 Hz to 0.2 Hz) 33 mF to 110.00 mF | 3.9 pF 0.004 nF 0.0051 nF 0.0078 nF 0.049 nF 0.21 nF 0.75 nF 0.0076 μF 0.022 μF 0.008 μF 0.60 μF 0.22 μF 0.16 μF 0.0014 mF 0.034 mF 0.120 mF 0.034 mF | Multi Product Calibrator Fluke 5522A LABC-018 |
| Capacitance – Measure ⁴ | 0 nF to 1 nF 1 nF to 10 nF 10 nF to 100 nF 100 nF to 1 μF | 0.016 nF 0.063 nF 0.63nF 6.3 nF | Precision Multimeter Fluke 8846A LABC-018 |

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|---|--|--|--|
| | 1 µF to 10 µF 10 µF to 100 µF 100 µF to 1 mF 1 mF to 10 mF 10 mF to 100 mF | 0.063 µF 0.68 µF 6.9 µF 0.070 mF 1.16 mF | |
| Power Factor @ 60 Hz | | 0.009 | 3-Phase Power Energy Meter LABC-144 |
| AC Power @ 60 Hz | Up to 1.8 kW | 0.006 kW | 3-Phase Power Energy Meter LABC-144 |
| AC Energy @ 60 Hz, 300 V / 6 A | Up to 1.8 kW*24 hour | 0.006 kWh | 3-Phase Power Energy Meter LABC-144 |
| Time and Frequency | | | |
| Stop Watch and Time Measuring Devices | 2 ms to 999 ms 2 s to 1 h 1 h to 24 h | 2.7 ms 1.3 s 7.3 s | Time Interval Meter LABC-167 |
| Non-Contact Tachometer | 2 rpm to 99999 rpm | 1.1 rpm | Tachometer Calibrator LABC-091 |
| Centrifuge | 0 rpm to 999 rpm 1000 rpm to 99999 rpm | 7.8 rpm 5.9 rpm | Reference Tachometer LABC-131 |
| Chemical | | | |
| pH Meters | 0 pH to 14 pH | 0.002 pH | Reference Buffer Solutions LABC-074 |
| Conductivity Meter | 1413 µS/cm 12880 µS/cm | 0.34 % 0.11 % | Reference Solutions LABC-047 |
| Viscosity Meter | 500 CPS to 5000 CPS | 1.1 % | Reference Solutions LABC-057 |
| Spectrophotometers | 190 nm to 1100 nm | 0.06 nm | Reference Kits LABC-133 |
| Dissolved Oxygen Meter | Zero Calibration | 1.2 % | Reference Solutions LABC-089 |
| Multi Gas Detectors | Methane: 50 %LEL, O ₂ : 20.9 %, H ₂ S: 25 ppm CO: 100 ppm | 2.0 % 2.0 % 2.0% 2.0 % | Standard Span Calibration Gases LABC-023 |

¹The uncertainty covered by the Calibration and Measurement Capability (CMC) is expressed as the expanded uncertainty having a coverage probability of approximately 95 %. It is the smallest measurement uncertainty that a laboratory can achieve within its scope of accreditation when performing calibrations of a best existing device. The measurement uncertainty reported on a calibration certificate may be greater than that provided in the CMC due to the behavior of the calibration item and other factors that may contribute to the uncertainty of a specific calibration.

²When uncertainty is stated in relative terms (such as percent, a multiplier expressed as a decimal fraction or in scientific notation), it is in relation to instrument reading or instrument output, as appropriate, unless otherwise indicated.

³Capability is suitable for the calibration of measuring devices in the stated ranges.

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⁴Capability is suitable for the calibration of devices intended to generate the indicated quantity in the stated ranges.

⁵Stated uncertainties are valid for the ranges of frequencies given, but the actual frequency applied by the calibrator may be dependent on the measurement device under calibration.

Notes:

1. Gs = Gauss; 1 Gs corresponds to 10^{-4} T
2. CPS = Centipoise
3. D = Degree of Darkness (optical density)
4. ppm = parts per million