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CERTIFICATE OF ACCREDITATION

This is to attest

RICI COMPANY LTD.

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

Expiration Date February 1, 2027

Effective Date July 16, 2025



International Accreditation Service

Issued under the authority of IAS management

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Accredited to ISO/IEC 17025:2017

Effective Date July 16, 2025

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 / Digital / Vernier	Up to 300 mm 300 mm to 1000 mm	7.5 µm 16 µm	Gage blocks set and long Gauges with Slip Gauge Accessories by direct measurement method
Plunger Type Dial Indicators	Up to 25 mm 25 mm to 100 mm	2 µm 5.9 µm	Single Axis Measuring Machine /Dial Gage Calibrator by Direct Measurement Method
Lever Type Dial Gauge	Up to 1 mm	5.7 µm	Single Axis Measuring Machine by Direct Measurement Method
Outside Micrometers	Up to 25 mm 25 mm to 150 mm 150 mm to 1000 mm	1.2 µm 2.2 µm 15 µm	Gage blocks set and long Gauges by direct measurement method
	Up to 25 mm 25 mm to 150 mm	1.1 µm 2.6 µm	Single Axis Measuring Machine by Direct Measurement Method
Inside Micrometer	Up to 600 mm	10 µm	Single Axis Measuring Machine by Direct Measurement Method
	25 mm to 150 mm 150 mm to 1000 mm	2.3 µm 15 µm	Inside Micrometer Checker, Gauge Block with Accessories LABC-038
Coating Thickness Gauge	Up to 1600 µm	0.5 µm	Coating Thickness Standards by Direct measurement method
Height Gauges	Up to 300 mm 300 mm to 1000 mm	6.2 µm 15 µm	Gage blocks set and long Gauges by direct measurement method

* 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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Depth Gauges	Up to 300 mm	6.2 µm	Gage Blocks with accessories by Direct measurement Method
Measuring Tapes	Up to 50000 mm	0.57 mm	Measuring Tape Calibrator by Direct measurement Method
Rulers / Measuring Scales	Up to 1000 mm	0.06 mm	Measuring Tape Calibrator by Direct measurement Method
Thickness Gauge	Up to 1000 µm 1 mm to 10 mm 10 mm to 100 mm	0.57 µm 0.59 µm 0.061 mm	Gage Block by Direct measurement Method
Sieves Fine Coarse	Up to 850 µm 1 mm to 200 mm	0.023 µm 0.045 mm	Tape & Scale Calibrator/, Digital Caliper by Direct measurement Method
Bevel Protractors	Up to 90°	0.030°	Angle Gage Block Set by direct measurement method
Profile Projector	Up to 200 mm Up to 90°	0.29 mm 1.3 × 10 ⁻⁴ rad	Glass Scale, by Direct measurement
Microscope	Up to 200 mm	0.29 mm	Glass Scale, by Direct measurement
Bore Gauges (Dia 6 mm to 450 mm)	Up to 2 mm (Traverse)	2.3 µm	Single Axis Measuring Machine by Direct Measurement Method
Dial Gauge Calibrator	0.5 mm to 25 mm	0.38 µm	Gage Blocks with Accessories by Direct measurement method
Slip Gauges Set	0.5 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 and Slip Gauge Set by comparison method
Gauge Blocks (Loose)	100 mm to 500 mm	6.6 µm	Single Axis Measuring Machine by Direct Measurement Method
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	0.95 µm 1.1 µm 1.6 µm 4.1 µm 6.8 µm	Single Axis Measuring Machine by Direct Measurement Method
Snap Gauges	Up to 500 mm	14 µm	Gage Blocks by Direct measurement method
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	Single Axis Measuring Machine by Direct Measurement Method

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Plain Plug Gauge (GO/NO-GO)	3 mm to 25 mm 25 mm to 50 mm 50 mm to 100 mm 100 mm to 300 mm 300 mm to 500 mm	0.38 µm 0.96 µm 1.9 µm 6.0 µm 12 µm	Single Axis Measuring Machine by Direct Measurement Method
Plain Ring Gauge (GO/NO-GO)	3 mm to 8 mm 8 mm to 200 mm 200 mm to 500 mm	2.0 µm 3.1 µm 8.3 µm	Single Axis Measuring Machine by Direct Measurement Method
Thread Plug Gauge (GO/NO-GO)	3 mm to 500 mm Effective / Pitch Diameter Major Diameter	8.2 µm 8.1 µm	Single Axis Measuring Machine by Direct Measurement Method
Thread Ring Gauge (GO/NO-GO)	Effective / Pitch Diameter 6 mm to 25 mm 25 mm to 50 mm 50 mm to 100 mm 100 mm to 300 mm 300 mm to 400 mm	0.37 µm 0.70 µm 1.4 µm 4.5 µm 6.2 µm	Single Axis Measuring Machine by Direct Measurement Method
Setting Cylindrical Master	3 mm to 50 mm 50 mm to 100 mm 100 mm to 200 mm 200 mm to 300 mm 300 mm to 400 mm	2 µm 1.6 µm 3.3 µm 4.8 µm 5.9 µm	Single Axis Measuring Machine by Direct Measurement Method
Measuring Pins	Up to 20 mm	0.29 µm	Single Axis Measuring Machine by Direct Measurement Method
Taper Thread Plug Gauge	Effective-Diameter 3 mm to 100 mm Major Diameter 3 mm to 100 mm	8 µm 8.1 µm	Single Axis Measuring Machine by Direct Measurement Method
Taper Thread Ring Gauge	Effective Diameter 3 mm to 100 mm	2.0 µm	Single Axis Measuring Machine by Direct Measurement Method
Jigs and Fixtures (Linear Measurement)	Up to 500 mm 500 mm to 1000 mm 1000 mm to 2000 mm	15 µm 20 µm 41 µm	By using Vernier Caliper / Micrometer by Direct measurement method
Mechanical			
Force-Compression (Tensile/ Compression/ Universal Testing Machines)	0.0025 kN to 3000 kN	0.2 %	Load Cells by direct measurement method
Force-Tension	Up to 50 kN	0.03 kN	Load cell by direct measurement method

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(Tensile/ Compression/ Universal Testing Machines)			
Proving Rings (Compression Mode)	Up to 50 kN	0.05 kN	Reference Load Cell with Indicator by comparison Method
Balances	1 mg to 210 g 210 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	1.5 mg 6.7 mg 11 mg 77 mg 94 g 0.06 kg	Class E1, F1 Weights by direct measurement Method
Pressure Gauges/ Pressure Transmitter/ Pressure Chart Recorder (Pneumatic)	-1 bar to 10 bar	0.06 bar	Test Pump with Reference Pressure Gauge Process Calibrator,
Pressure Gauges/ Pressure Transmitter/ Pressure Chart Recorder (Hydraulic)	0 bar to 60 bar 0 bar to 100 bar 0 bar to 600 bar 600 bar to 1400 bar 1400 bar to 2800 bar	0.07 bar 0.12 bar 0.22 bar 0.28 bar 1.6 bar	Dead Weight Tester/ HART/Fieldbus Communicator, Reference Multimeter
Hardness Testing Machines (Vicker) (Indirect Verification)	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 by Direct measurement method
Hardness Testing Machines (Rockwell, Brinell) (Indirect Verification)	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 by Direct measurement method
Vacuum Gages	0 in Hg to 26.57 inHg	0.008 inHg	Test pump and master gage by Comparison Measurement Method
Pressure Safety Relief Valve	Up to 10000 psi	6.1 psi	Standard Pressure gages by Direct Measurement Method
Torque Wrench	10 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 by Direct Measurement Method
Sound Level Meter @ 16 kHz	94 dB to 114 dB	0.31 dB	Acoustic Calibrator by Direct Measurement Method

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Vibration Meter	Up to 20 m/s ²	0.82 m/s ²	Vibration Calibrator by Direct Measurement Method
Batch Plant (Concrete/ Asphalt Plant)	1000 kg	0.06 kg	Class M1 Standard Weights by direct measurement
Pipettes/ Micropipettes	Up to 100 µL 100 µL to 300 µL 300 µL 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 0.79 µL 1.1 µL 2.7 µL	Mass Comparators, Reference Thermometer by comparison method
Burettes	Up to 500 µL 500 µL to 10 mL 10 mL to 25 mL 25 mL to 50 mL 50 mL to 100 mL	0.71 µL 0.71 µL 0.79 µL 1.1 µL 2.7 µL	Mass Comparators, Reference Thermometer by comparison method
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 and Reference Thermometer by Direct measurement method
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 26 µL	Mass Comparators, Reference Thermometer
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



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Mass (Standard Weights) 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	0.39 g 0.18 g 78 mg 36 mg 21 mg 8.7 mg 8.7 mg 8.7 mg 8.7 mg 8.5 mg 8.3 mg 7.9 mg 7.7 mg 7.1 mg 9.1 mg	Mass Comparators, Class E1 Standard Weights by ABA method as per OIML
Density Hydrometers	0.600 g/mL to 1.050 g/mL	0.0029 g/mL	Reference Density Standard Solutions by Direct measurement
Anemometers/ Air Meters (Air Velocity)	25 ft/min to 9000 ft/min	7 ft/min	Reference Air Meter, Wind Tunnel by Direct measurement
Densitometers	0 D to 14 D	0.021 D	Reference Density Film by Direct measurement method
Electromagnetic Yoke	Lifting Power 4.536 kg= 10 lbf) - AC	0.6 lbs	Standard Dead Weight by Direct measurement
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 Troxler (3411, 3430, 3440, 3440+) Humboldt
Hydraulic Torque Wrench	100 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
Thermal			
Temp Sensors with /Without Indicators (Thermometer/ RTD/ Thermocouple)	-40 °C to 20 °C 20 °C to 140 °C 140 °C to 650 °C 650 °C to 1200 °C	1.0 °C 0.69 °C 0.33 °C 1.3 °C	Universal Calibrator, Dry Block / Oil Bath, Ref Sensor (RTD/ N Type) by Direct Method
Oven/ Furnace/ Autoclave/ Incubators/ Freezers/ Refrigerators	-80 °C to 100 °C 100 °C to 250 °C 250 °C to 400 °C	0.12 °C 0.2 °C 0.2 °C	Reference Sensors and Process Calibrator by Mapping Method



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MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY ^{1,2} (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT (OPTIONAL)
	400 °C to 1200 °C	0.8 °C	
	-30 °C to 650 °C	1.6 °C	
	650 °C to 1200 °C	0.8 °C	
Temperature Baths (Water/Oil)	0 °C to 90 °C	0.2 °C	RTD/ Temperature Calibrator by direct method
Hot Plates	35 °C to 300 °C	0.62 °C	Reference Surface Probe, Temperature Calibrator by direct measurement method
Temperature Transmitter	0 °C to 140 °C	0.06 °C	RTD, Dry Block, Oil Bath, Process Calibrator, ART/Fieldbus Communicator, Reference Multimeter by comparison Method
	140 °C to 650 °C	0.13 °C	
	650 °C to 1200 °C	0.76 °C	
Temperature Dry Blocks/ IR Calibrator	-40 °C to 140 °C	0.035 °C	Ref Sensor (RTD/ N Type) by Direct Method
	140 °C to 350 °C	0.024 °C	
	350 °C to 650 °C	0.71 °C	
	650 °C to 1200 °C	0.79 °C	
Infrared Thermometers	-40 °C to 140 °C	0.015 °C	Blackbody Sources & Dry Block with Sensor by direct measurement
	140 °C to 650 °C	0.14 °C	
	650 °C to 1200 °C	0.76 °C	
Thermo-Hygrometer	Temperature: 10 °C to 50 °C @ 50 %RH	0.11 °C	Temperature Humidity Chamber by direct measurement
	Humidity: 10 % to 90 %RH @ 23 °C	2.9 %RH	
Electrical – DC/LF			
Welding Machines	50 A to 600 A 0 V to 50 V (DC)	1.2 % of Setting 0.56 V	Check Master 9000 by Direct measurement method
Holiday Detector	0 kV to 40 kV	0.6 kV	Fluke High Voltage Probe, Digital Multimeter by Direct measurement method
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 by Direct measurement method
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 by Direct measurement method



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MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY ^{1,2} (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT (OPTIONAL)
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 by Direct measurement method
Clamp meter	0 to 1000 A (DC) (AC @ 60 Hz)	0.067 A 0.071 A	Fluke 5500A / Coil (50 Turns) by Direct measurement method
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 3 A 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 by direct measurement Method
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 by direct measurement Method
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 by direct measurement Method
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) 0.33 V to 3.29999 V (10 Hz to 450 kHz) 3.3 V to 32.9999 V (10 Hz to 90 kHz)	4.5 µV 14 µV 34 µV 4.4 mV	Multi Product Calibrator Fluke 5522A by direct measurement Method

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	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 by direct measurement Method
	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 by direct measurement Method
	0.33 mA to 3.2999 mA (10 Hz to 30 kHz)	0.26 µA	
AC Current – Generate ³ (cont'd.)	3.3 mA to 32.999 mA (10 Hz to 30 kHz)	5 µA	Multi Product Calibrator Fluke 5522A by direct measurement Method
	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	
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 by direct measurement Method



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Electrical Simulation of Thermocouples – Generate and Measure			Multi Product Calibrator Fluke 5522A (with TC measuring option) by direct measurement Method
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 Pt 385, 200 Ω Pt 385, 500 Ω Pt 385, 1000 Ω	-200 °C to 800 °C -200 °C to 630 °C -200 °C to 630 °C -200 °C to 630 °C	0.012 °C 0.012 °C 0.012 °C 0.012 °C	Temperature Calibrator Fluke 525B by direct measurement Method
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	3.9 pF 0.004 nF 0.0051 nF	Multi Product Calibrator Fluke 5522A by direct measurement Method

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Capacitance – Generate ^{3,5} (cont'd.)	(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	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 0.12 mF 0.034 mF	Multi Product Calibrator Fluke 5522A by direct measurement Method
Capacitance – Measure ⁴	0 nF to 1 nF 1 nF to 10 nF 10 nF to 100 nF 100 nF to 1 µF 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	0.016 nF 0.063 nF 0.63 nF 6.3 nF 0.063 µF 0.68 µF 6.9 µF 0.070 mF 1.2 mF	Precision Multimeter Fluke 8846A by direct measurement Method



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Power Factor @ 60 Hz	0 to 1 (Lead /Lag)	0.009	3-Phase Power Energy Meter by direct measurement Method
AC Power @ 60 Hz	Up to 1.8 kW	0.006 kW	3-Phase Power Energy Meter by direct measurement Method
AC Energy @ 60 Hz, 300 V / 6 A	Up to 1.8 kW x 24 hour	0.006 kWh	3-Phase Power Energy Meter by direct measurement Method
Time and Frequency			
Stopwatch and Time Measuring Devices	999 ms to 60 s 60 s to 1 h 1 h to 24 h	2.7 ms 1.3 s 7.3 s	Time Interval Meter by Direct measurement method
Non-Contact Tachometer	10 rpm to 99999 rpm	1.3 rpm	Tachometer Calibrator by direct measurement
Centrifuge	10 rpm to 999 rpm 1000 rpm to 99999 rpm	7.8 rpm 5.9 rpm	Reference Tachometer by Direct measurement
Chemical			
pH Meters	0 pH to 14 pH	0.002 pH	Reference Buffer Solutions by Direct measurement
Conductivity Meter	1413 µS/cm 12880 µS/cm	0.34 % 0.11 %	Reference Conductivity Solutions by Direct measurement
Viscosity Meter	500 CPS to 5000 CPS	1.1 %	Reference Viscosity Solutions by Direct Measurement
Spectrophotometers	198 nm to 635 nm	0.06 nm	Set of Natural Density Glass Filters Kits by direct measurement
Dissolved Oxygen Meter	Zero Calibration	0.02 mg/L	Reference Solutions by direct measurement
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 by direct method

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.



SCOPE OF ACCREDITATION

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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

