



INTERNATIONAL
ACCREDITATION
SERVICE®

CERTIFICATE OF ACCREDITATION

This is to attest

UNIVERSAL INSPECTION SERVICES CO. LTD.

P.O. BOX 2072

JUBAIL EASTERN, 31951, SAUDI ARABIA

Calibration Laboratory CL-184

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 April 1, 2026

Effective Date February 9, 2026



International Accreditation Service

Issued under the authority of IAS management

Visit www.iasonline.org for current accreditation information.

SCOPE OF ACCREDITATION

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www.ui.com.sa

Contact Name Dinesh Kumar Kesavan

Contact Phone +966-508836773

Accredited to ISO/IEC 17025:2017

Effective Date February 9, 2026

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>			
Vernier Caliper LC-0.01 mm	0 mm to 300 mm 0 mm to 600 mm 0 mm to 1000 mm 0 mm to 2000 mm	13 µm 14 µm 16 µm 29 µm	By using Caliper Checker & Circular Steel Length Bar – Direct Method
Vernier Height Gauge LC-0.01 mm	0 mm to 300 mm 0 mm to 600 mm	12 µm 15 µm	By using Caliper Checker & Circular Steel Length Bar – Direct Method
External Micrometer LC-0.001 mm	0 mm to 25 mm 25 mm to 50 mm 50 mm to 100 mm	1.2 µm 1.3 µm 10 µm	By using Gauge Block Grade '0', & Circular Steel Length Bar by Direct Method
Dial Indicator (Plunger) (LC-0.01 mm)	0 mm to 25 mm	6 µm	By using ULM – Comparison Method
Dial Indicator (Lever) (LC-0.001 mm)	0 mm to 2 mm	6 µm	By using ULM – Comparison Method
Coating Thickness Gauge (LC-0.001 mm)	0 mm to 1 mm	4.2 µm	By using Master Foils - Direct Method
Tubular inside Micrometer (LC- 0.01 mm)	0 mm to 300 mm	6 µm	By using ULM and Gauge blocks – Comparison Method
Feeler Gauge	0 mm to 5 mm	3.6 µm	By using Digital Micrometer- Direct Method
Radius Gauge	0 mm to 25 mm	24 µm	By Using Profile Projector Direct Method
Bevel Protractor	0 ° to 90 ° (Four Quadrants)	7.8 arc min	By Using Profile Projector Comparison 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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MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY ^{1,2} (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT (OPTIONAL)
Bore Gauge (Transmission only)	0 mm to 1.2 mm	6 µm	By using ULM –Direct Method
Depth Micrometer	0 mm to 300 mm	9.6 µm	By using Depth Microchecker and Gauge blocks – Direct Method
Setting Rod	0 mm to 500 mm	3.3 µm	By using ULM, Gauge Block set and Long Slip Gauge blocks – Comparison Method
Plain Plug Gauge	0 mm to 100 mm	1.9 µm	Comparison Method using Gauge blocks and ULM
Plain Ring Gauge	0 mm to 100 mm	2.1 µm	Comparison Method using Master ring gauges and ULM
Taper Thread Plug Gauge	0 mm to 100 mm	2.6 µm	Comparison Method using Gauge blocks and ULM
Thread Plug Gauge	0 mm to 100 mm	2.3 µm	Comparison Method using Gauge blocks, Three-wire Measuring pin set and ULM
Thread Ring Gauge	0 mm to 100 mm	2.9 µm	Comparison Method using reference ring gauges and ULM
Taper Thread Ring Gauge	0 mm to 100 mm	2.9 µm	Comparison Method using Reference ring gauges and ULM
Vernier Depth Gauge	0 mm to 300 mm	8 µm	By using Caliper Checker and Gauge blocks – Direct Method
Dial Thickness Gauge	0 mm to 20 mm	6 µm	By using Gauge blocks – Direct Method
Mechanical			
Universal Testing Machine/ Compression Testing machine (Only Compression Mode) ⁵	100 kN to 1000 kN 1000 kN to 3000 kN	0.5 % 0.5 %	By using Load Cell - Direct Method
Torque Wrench/ Torque Gauge/ Torque Screwdriver	0.2 N·m to 2 N·m 2 N·m to 10 N·m 10 N·m to 50 N·m 50 N·m to 1000 N·m 1000 N·m to 3000 N·m	0.036 N·m 0.053 N·m 0.32 N·m 0.56 N·m 5.0 N·m	By using Torque Wrench Calibration System –Direct Method

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MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY ^{1,2} (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT (OPTIONAL)
Rockwell Hardness Tester ⁵	HRA (20-88) 39.6 HRA 82.3 HRA	1.4 % 0.92 HRA 0.90 HRA	By using Standard Test Block, Direct Method (Indirect Verification)
Vickers Hardness Tester ⁵	Hardness Scale HV-10	2 %	By using Standard Test Block, Direct Method (Indirect Verification)
Brinell Hardness Tester ⁵	Hardness Scale HBW 2.5/187.5	0.1 %	By using Standard Test Block, Direct Method (Indirect Verification)
Hydraulic Pressure ⁵ (Dial/Digital Pressure Gauge, Pressure Transducer, Pressure Switch, Pressure Recorder, Pressure Transmitter Pressure Module)	0 psi to 1000 psi 1000 psi to 5000 psi 5000 psi to 10000 psi 10000 psi to 30000 ps	1.1 psi 6 psi 16 psi 38 psi	By using Digital Pressure Gauge – Comparison Method
Pneumatic Pressure ⁵ (Dial/Digital Pressure Gauge, Pressure Transducer, Pressure Switch, Pressure Recorder, Pressure Transmitter Pressure Module)	0 bar to 10 bar 10 bar to 100 bar 100 bar to 150 bar	0.1 bar 0.15 bar 0.76 bar	By using Digital Pressure Gauge – Comparison Method
Vacuum Gauge ⁵	0 bar to -0.95 bar	0.035 bar	By using Digital Vacuum gauge – Comparison Method
Safety Relief Valve	0 psi to 100 psi 100 psi to 1000 psi 1000 psi to 5000 psi 5000 psi to 10000 psi 10000 psi to 20000 psi	0.56 psi 2.9 psi 3.5 psi 5.8 psi 9.5 psi	By using Digital Pressure Gauge – Comparison Method
Sound Level Meter @ 1000 Hz	94 dB 114 dB	1.4 dB 1.4 dB	By using Sound Level Calibrator – By Direct Method
Weighing Balances ⁵	10 mg to 500 mg 500 mg to 2 kg 2 kg to 5 kg 5 kg to 10 kg	1.5 mg 0.07 g 0.1 g 0.1 g	By using standard Weights - E2 Class Procedure – By Direct Method
	10 kg to 30 kg	1.6 g	By using standard Weights - M1 Class -Direct Method
Densitometers ⁵	0 D to 4 D	0.013 D	By using Reference Density Film Direct method

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Anemometer	2.5 m/s 5 m/s 10 m/s 15 m/s	0.53 m/s 0.46 m/s 0.57 m/s 0.74 m/s	By using Reference Wind tunnel Generator – Direct method
Thermal			
Infrared Thermometer/ Non-Contact Thermometers	50 °C to 500 °C	2.8 °C	By using Black Body Furnace –Direct method
RTD/Thermocouple Sensor with and without Indicators, Temperature Gauges ⁵	-80 °C to 25 °C 25 °C to 600 °C 600 °C to 1200 °C	0.25 °C 0.63 °C 2.8 °C	By using Dry Block Calibrator - Direct Method
Thermo-hygrometer	20 %RH to 90 %RH @ (30 °C to 50 °C) 20 °C to 50 °C @ (30 %RH to 90 %RH)	2.1 %RH 0.81 °C	By Using Humidity Calibrator – Direct Method
Liquid Baths ⁵ , Dry Well Blocks	-15 °C to 50 °C 50 °C to 600 °C 600 °C to 1200 °C	0.25 °C 0.8 °C 2.8 °C	By using Standard Temp Sensor (PRT/ S type) with Indicator – Direct Method
Refrigerator, Ovens, Furnace ⁵	-15 °C to 300 °C 500 °C to 1200 °C	0.8 °C 2.6 °C	By using Standard Temp Sensor (PRT/ S type) with Indicator (by Single Position Calibration) – Direct Method
Electrical – DC/LF			
Temperature Simulation – Source ⁵ Type K Type E Type T Type J PT-100	-200 °C to 1372 °C -200 °C to 900 °C -200 °C to 400 °C -200 °C to 1200 °C -200 °C to 800 °C	0.87 °C 1.5 °C 2.0 °C 0.87 °C 0.87 °C	By using Documenting Process Calibrator - Direct Method
Temperature Simulation – Measure ⁵ Type K Type E Type T Type J PT-100	-200 °C to 1372 °C -200 °C to 900 °C -200 °C to 400 °C -200 °C to 1200 °C -200 °C to 800 °C	0.87 °C 1.5 °C 2.0 °C 0.95 °C 0.87 °C	By using Documenting Process Calibrator - Direct Method
DC Resistance Source ⁵	1 kΩ to 10 kΩ 10 kΩ to 100 kΩ 100 kΩ to 1 MΩ 1 MΩ to 50 MΩ	1.6 Ω 5.6 Ω 0.97 kΩ 4.3 kΩ	By using Multifunction Calibrator –Direct Method

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	100 MΩ 1000 MΩ	4.7 kΩ 0.31 MΩ	By High Resistance Standard Direct Method
DC Voltage Source ⁵	0 μV to 20 mV 20 mV to 200 mV 200 mV to 240 V 240 V to 1000 V	0.0016 mV 0.0011 mV 1.5 mV 0.16 V	By using Multifunction Calibrator – Direct Method
AC Voltage Source ⁵ @ 50 Hz	1 mV to 20 mV 20 mV to 200 mV 200 mV to 2 V 2 V to 240 V 240 V to 1000 V	0.086 mV 0.77 mV 0.89 mV 0.094 V 0.46 V	By using Multifunction Calibrator – Direct Method
AC Current Source ⁵ @ 50 Hz	1 μA to 200 μA 200 μA to 2 mA 2 mA to 20 mA 20 mA to 200 mA 200 mA to 10 A	0.48 uA 1.1 uA 0.013 mA 0.33 mA 18 mA	By using Multifunction Calibrator – Direct Method
DC Current Source ⁵	1 μA to 200 μA 200 μA to 2 mA 2 mA to 20 mA 20 mA to 200 mA 200 mA to 20 A	0.058 μA 0.0030 mA 0.0030 mA 6.9 mA 6.9 mA	By using Multifunction Calibrator – Direct Method
DC Voltage Measure ⁵	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	0.011 mV 0.35 mV 0.35 mV 56 mV 56 mV	By using Precision Multimeter, Direct Method
AC Voltage Measure ⁵ @ 50 Hz	1 mV to 100 mV 100 mV to 1 V 1 V to 10 V 10 V to 100 V 100 V to 1000 V	0.091 mV 0.21 mV 12 mV 26 mV 0.96 V	By using Precision Multimeter, Direct Method
DC Current Measure ⁵	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	0.087 μA 1 μA 8 μA 0.064 mA 0.32 mA 3.2 mA 140 mA 180 mA	By using Precision Multimeter, Direct Method
AC Current Measure ⁵ @ 50 Hz	10 μA to 1 mA 1 mA to 10 mA 10 mA to 400 mA 400 mA to 1 A 1 A to 3 A	1.5 μA 87 μA 0.11 mA 3.3 mA 10 mA	By using Precision Multimeter, Direct Method

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	3 A to 10 A	20 mA	
DC Resistance Measure ⁵	10 Ω to 300 Ω 1 kΩ to 10 kΩ 10 kΩ to 100 kΩ 100 kΩ to 1 MΩ 1 MΩ to 50 MΩ	0.048 Ω 3.0 Ω 6.2 Ω 0.06 kΩ 0.47 MΩ	By using Precision Multimeter, Direct Method
Capacitance Source ⁵	1 nF to 100 nF 1 μF to 100 μF	2 nF 5.1 %	By using Decade Capacitance Box - Direct Method
Holiday Detector DC	1.5 kV to 40 kV	6.3 %	By using AC/DC High Voltage Probe & High Voltage Divider Comparison Method
Pin Hole Detector	0 V to 90 V	0.012 V	By using Precision Multimeter Direct Method
Welding Machine ⁵	50 A to 600 A	4.2 %	By using Load Bank, Direct Method
Time and Frequency			
Tachometer	Contact: 12000 rpm Photo: 12000 rpm	1.1 rpm 3.2 rpm	By Using Tachometer Calibrator, Comparison Method
Chemical/Gas			
pH Meters	4 pH, 7 pH, 10 pH	0.47 pH	By using Reference Buffer Solution, Direct Method
Conductivity Meter (TDS)	84 μS/cm 1413 μS/cm	0.97 % 0.99 %	By using Reference Conductivity Solution – Direct Method
Gas Detectors ⁵	O ₂ : 18 % Methane: 50 %LEL CO: 100 ppm H ₂ S: 25 ppm	2 % 2.2 % 2.1 % 2 %	By using Standard Span Calibration Gases – Direct Method
Oxygen Analyzer ⁵	O ₂ : 20.9 %	2 %	

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.

⁵Also available as site calibration. Note that actual measurement uncertainties achievable at a customer's site can normally be expected to be larger than the uncertainties listed on this Scope of Accreditation.

Notes:

ppm = parts per million

D = Degree of Darkness (optical density)

LEL = Lower Explosive Level

TDS = Total Dissolved Solids

