



INTERNATIONAL
ACCREDITATION
SERVICE®

CERTIFICATE OF ACCREDITATION

This is to attest that

UNIFIED INSPECTION COMPANY LTD.

POST BOX NO.:8951, KING FAHD INDUSTRIAL PORT, AL AREIFI
JUBAIL 35525, KINGDOM OF SAUDI ARABIA

Calibration Laboratory CL-265

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 July 7, 2023

Expiration Date March 1, 2025



A handwritten signature in black ink, reading 'Raj Nathan'.

President

Visit www.iasonline.org for current accreditation information.

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

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UNIFIED INSPECTION COMPANY LTD.

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Accredited to ISO/IEC 17025:2017

Effective Date July 7, 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> | | | |
| Bevel Protractor | Up to 90° | 0.035° | Calibration procedure: U – DIM - CP 001 Angle Gauge Set |
| Feeler Gauge | Up to 2 mm | 2.1 µm | Calibration procedure: U - DIM - CP 002, Digital Micrometer |
| Plunger Dial Gauge | Up to 25 mm | 2.7 µm | Calibration procedure: U - DIM - CP 003, Dial Gauge Calibration Tester |
| Lever Dial Gauge | Up to 1.0 mm | 3.0 µm | Calibration procedure: U - DIM - CP 004, Dial Gauge Calibration Tester |
| External Micrometer | Up to 150 mm Up to 1000 mm | 1.0 µm 4.0 µm | Calibration procedure: U - DIM - CP 005, Micrometer Check Set/ Long Gauge Block Set |
| Internal Micrometer | Up to 300 mm Up to 1000 mm | 8.0 µm 15 µm | Calibration procedure: U - DIM - CP 006, Long Gauge Block Set |
| Height Gauge | Up to 600 mm Up to 1000 mm | 11 µm 13 µm | Calibration procedure: U - DIM - CP 007, Caliper Checker & Long Gauge Block Set |
| Vernier Caliper | Up to 1000 mm | 12 µm | Calibration procedure: U - DIM - CP 008, Caliper Checker & Long Gauge Block Set |

* 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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|--|---|--|---|
| Measuring Tape | Up to 100 m | 0.25 mm | Calibration procedure: U - DIM - CP 009, Tape & Scale Measuring Machine |
| Steel Scale / Steel Rule | Up to 1000 mm | 0.24 mm | |
| Standard Foils | Up to 4.5 mm | 3.0 µm | Calibration procedure: U - DIM - CP 010, Digital Micrometer |
| Coating Thickness Gauge (Ferrous & Non-Ferrous) | Up to 5 mm | 4.5 µm | Calibration procedure: U - DIM - CP 011, Standard Foils |
| Thickness Gauges | Up to 100 mm | 8.0 µm | Calibration procedure: U - DIM - CP 012, Gauge Block Set & Standard Foils |
| Mechanical | | | |
| Sound Level Meter | 94 dBA (@ 1 kHz) 114 dBA (@ 1 kHz) | 0.4 dB 0.6 dB | Calibration procedure: U - ACO - CP 001 Sound Level Calibrator |
| Anemometers | 0.7 m/s to 5 m/s 5 m/s to 10 m/s 10 m/s to 15 m/s 15 m/s to 20 m/s | 0.56 m/s 0.93 m/s 1.2 m/s 1.7 m/s | Calibration procedure: U - VEL - CP 001 Portable Wind Tunnel & Digital Anemometer |
| Torque Wrench | 1 N m to 10 N m 10 N m to 100 N m 100 N m to 1000 N m 1000 N m to 2000 N m 2000 N m to 3000 N m | 0.24 N m 1.3 N m 1.7 N m 5.8 N m 7.0 N m | Calibration procedure: U - TOR - CP 001, Torque Wrench Calibration System |
| VACUUM Vacuum Gauge/ Vacuum Switch | -0.95 bar to 0 bar | 0.012 bar | Calibration procedure: U - PRE - CP 003, Digital Pressure Gauge |
| PNEUMATIC PRESSURE Pressure Gauge/ Pressure Transmitter/ Pressure Transducer/ Pressure Recorder / Pressure Switch | 0 bar to 40 bar | 0.008 bar | Calibration procedure: U - PRE - CP 001, 002, 003 Digital Pressure Gauge |
| HYDRAULIC PRESSURE Pressure Gauge/ Pressure Transmitter/ Pressure Transducer/ Pressure Recorder/ Pressure Switch | 0 bar to 100 bar 100 bar to 1000 bar 1000 bar to 2500 bar | 0.21 bar 0.34 bar 1.2 bar | Calibration procedure: U - PRE - CP 001, 002, 003, Pressure Transmitter with Handheld Process Calibrator |
| Vacuum Relief Valve | -0.95 bar to 0 bar | 0.015 bar | Calibration procedure: U - PRE - CP 003, Digital Pressure Gauge |

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|---|---|---|--|
| Pressure Relief Valve/ Safety Relief Valve | 0 bar to 700 bar | 0.49 bar | Calibration procedure: U - PRE - CP 003, Digital Pressure Gauge |
| Tachometer (Contact) | 10 rpm to 1000 rpm 1000 rpm to 9000 rpm | 2 rpm 6 rpm | Calibration procedure: U - ACC - CP 001, RPM Calibrator |
| Tachometer (Non-Contact) | 10 rpm to 1000 rpm 1000 rpm to 10000 rpm 10000 rpm to 50000 rpm 50000 rpm to 90000 rpm | 3 rpm 6 rpm 16 rpm 27 rpm | Calibration procedure: U - ACC - CP 001, RPM Calibrator |
| Thermal | | | |
| Thermo Hygrometer, Temperature & Humidity Sensor with Indicator | 20 %RH to 90 %RH @ Ambient temperature | 1.7 %RH | Calibration procedure: U-THE-CP 005, Temperature & Humidity Indicator with sensor |
| Temp sensors with/ without indicator/ controller/ switch/ recorder/ Transmitter/ Transducer/ Data logger / Temperature Gauges | -45 °C to 140 °C 140 °C to 660 °C | 0.56 °C 0.59 °C | Calibration procedure: U-THE-CP 001, 002 & 003, Dry Block Calibrator & PRT Probe |
| Oven/Freezer/ Refrigerator/ Water bath (Single sensor method) | -10 °C to 100 °C 100 °C to 500 °C | 0.96 °C 0.65 °C | Calibration procedure: U-THE-CP 006, RTD & Temperature Calibrator |
| Infrared Thermometer | -45 °C to 140 °C 140 °C to 660 °C | 0.22 °C 0.69 °C | Calibration procedure: U-THE-CP 004, Blackbody Kit |
| Temperature Recorder | 5 °C to 1200 °C | 6 °C | Calibration procedure: Euramet CG 11 Fluke 724 |
| Temperature Programmer | 10 °C to 1200 °C | 1.2 °C | Calibration procedure: Euramet CG 11 Fluke 724 |
| Electrical – DC/LF | | | |
| Welding Machine (AC / DC) | 0 A to 600 A 0 V to 100 V | 0.89 % 0.72 % | Calibration procedure: U-ET-CP 005, Welding Machine Calibrator |
| Holiday Detectors (DC) | 0 kV to 40 kV | 1.2 kV | Calibration procedure: U-ET-CP 004, HV Probe & Dig. Multimeter |
| 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 | 0.0087 mV 0.028 mV 0.21 mV 5.1 mV 51 mV | Calibration procedure: U-ET-CP 001, 7½ Digit Multimeter |

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|---|---|--|--|
| DC Current – Measure ⁴ | 1 µA to 100 µA 100 µA to 1 mA 1 mA to 10 mA 10 mA to 100 mA 100 mA to 1 A 1 A to 3 A 3 A to 10 A | 0.06 µA 0.001 mA 0.008 mA 0.064 mA 0.001 A 0.008 A 0.015 A | Calibration procedure: U-ET-CP 001, 7½ Digit Multimeter |
| AC Voltage – Measure ⁴ | 1 mV to 100 mV (10 Hz to 300 kHz) 100 mV to 1 V (10 Hz to 300 kHz) 1 V to 10 V (10 Hz to 100 kHz) 10 V to 100 V (30 Hz to 20 kHz) 100 V to 750 V (30 Hz to 10 kHz) | 0.24 mV 0.013 V 0.023 V 0.081 V 0.61 V | Calibration procedure: U-ET-CP 001, 7 ½ Digit Multimeter |
| AC Current – Measure ⁴ | 30 µA to 100 µA (10 Hz to 5 kHz) 100 µA to 1 mA (10 Hz to 5 kHz) 1 mA to 10 mA (10 Hz to 5 kHz) 10 mA to 100 mA (10 Hz to 5 kHz) 100 mA to 1 A (10 Hz to 5 kHz) 1 A to 3 A (10 Hz to 5 kHz) 3 A to 10 A (30 Hz to 1 kHz) | 0.16 µA 0.002 mA 0.016 mA 0.16 mA 0.002 A 0.01 A 0.023 A | Calibration procedure: U-ET-CP 001, 7 ½ Digit Multimeter |
| Capacitance – Measure ⁴ | 1 nF to 100 nF 100 nF to 1 µF 1 µF to 10 µF | 0.58 nF 0.0058 µF 0.058 µF | Calibration procedure: U-ET-CP 001, 7 ½ Digit Multimeter |
| DC Resistance – Measure ⁴ | 0 Ω to 100 Ω 100 Ω to 1 kΩ 1 kΩ to 10 kΩ 10 kΩ to 100 kΩ | 0.012 Ω 0.078 Ω 0.78 Ω 7.4 Ω | Calibration procedure: U-ET-CP 001, 7 ½ Digit Multimeter |

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|---|---|---|---|
| DC Resistance – Measure ⁴ (continued) | 100 k Ω to 1 M Ω 1 M Ω to 10 M Ω 10 M Ω to 100 M Ω 100 M Ω to 1 G Ω | 0.11 k Ω 3.09 k Ω 0.36 M Ω 37 M Ω | Calibration procedure: U-ET-CP 001, 7 ½ Digit Multimeter |
| Frequency – Measure ⁴ | 10 Hz to 1 kHz 1 kHz to 100 kHz | 0.59 Hz 0.01 kHz | Calibration procedure: U-ET-CP 001, 7 ½ Digit Multimeter |
| Insulation Resistance- Generate ³ | 20 M Ω to 100 M Ω 100 M Ω to 500 M Ω 500 M Ω to 1 G Ω 1 G Ω to 10 G Ω | 4 M Ω 18 M Ω 32 M Ω 600 M Ω | Transmille Electric Test calibrator 3200 B, based on ASTM D2865-01 |
| Continuity Resistance - Generate ³ | 1 Ω to 20 Ω 20 Ω to 200 Ω 200 Ω to 2000 Ω | 0.25 Ω 2.6 Ω 26 Ω | Transmille Electric Test calibrator 3200 B, based on ASTM E1462-12 |
| DC Voltage – Generate ³ | 0 mV to 200 mV 200 mV to 2 V 2 V to 20 V 20 V to 200 V 200 V to 1000 V | 0.011 mV 0.075 mV 0.63 mV 7.4 mV 39 mV | Calibration procedure: U-ET-CP 002, Multi Product Calibrator |
| DC Current – Generate ³ | 0 μ A to 200 μ A 200 μ A to 2 mA 2 mA to 20 mA 20 mA to 200 mA 200 mA to 2 A 2 A to 30 A 30 A to 1000 A | 0.06 μ A 0.23 μ A 1.5 μ A 0.022 mA 0.4 mA 0.07 A 0.50 A | Calibration procedure: U-ET-CP 002, Multi Product Calibrator & 50 Current Coil |
| AC Voltage – Generate ³ | 20 mV to 200 mV (10 Hz to 300 kHz) 200 mV to 2 V (10 Hz to 300 kHz) 2 V to 20 V (10 Hz to 100 kHz) 20 V to 200 V (30 Hz to 20 kHz) 200 V to 1000 V (30 Hz to 10 kHz) | 0.41 mV 4.9 mV 69 mV 0.46 V 2.3 V | Calibration procedure: U-ET-CP 002, Multi Product Calibrator |
| AC Current – Generate ³ | 25 μ A to 200 μ A (10 Hz to 10 kHz) 200 μ A to 2 mA (10 Hz to 10 kHz) | 0.25 μ A 2.1 μ A | Calibration procedure: U-ET-CP 002, Multi Product Calibrator & 50 Current Coil |

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|--|-------------------------------------|--------------------------------|---|
| AC Current – Generate ³ (continued) | 2 mA to 200 mA (10 Hz to 10 kHz) | 0.11 mA | Calibration procedure: U-ET-CP 002, Multi Product Calibrator & 50 Current Coil |
| | 200 mA to 2 A (10 Hz to 5 kHz) | 1.9 mA | |
| | 2 A to 10 A (30 Hz to 1 kHz) | 29 mA | |
| | 0 A to 1500 A (60 Hz) | 1.5 A | |
| DC Resistance – Generate ³ (Fixed Values) | 0.1 Ω | 0.006 Ω | Calibration procedure: U-ET-CP 003, Multi Product Calibrator |
| | 1 Ω | 0.006 Ω | |
| | 10 Ω | 0.007 Ω | |
| | 100 Ω | 0.012 Ω | |
| | 1 kΩ | 0.092 Ω | |
| | 10 kΩ | 0.92 Ω | |
| | 100 kΩ | 9.2 Ω | |
| | 1 MΩ | 0.16 kΩ | |
| | 10 MΩ | 4.5 kΩ | |
| | 100 MΩ | 0.58 MΩ | |
| 1 GΩ | 12 MΩ | | |
| Capacitance – Generate ³ (Fixed Values) | 1 nF | 0.0042 nF | Calibration procedure: U-ET-CP 002, Multi Product Calibrator |
| | 10 nF | 0.036 nF | |
| | 20 nF | 0.072 nF | |
| | 50 nF | 0.18 nF | |
| | 100 nF | 0.31 nF | |
| | 1 μF | 4.6 nF | |
| | 10 μF | 73 nF | |
| Frequency – Generate ³ | 1 Hz to 100 Hz | 0.25 mHz | Calibration procedure: U-ET-CP 002, Multi Product Calibrator |
| | 100 Hz to 1 kHz | 0.02 Hz | |
| | 1 kHz to 100 kHz | 2.4 Hz | |
| | 100 kHz to 300 kHz | 6.9 Hz | |
| Electrical Simulation – Measure & Generate Mode (RTD) PT100 | -200 °C to 630 °C | 0.25 °C | Calibration procedure: U-ET-CP 006 Multi Product Calibrator & Precision Calibrator |
| Electrical Simulation – Measure & Generate Mode (TC) | T-TYPE | -200 °C to 400 °C | Calibration procedure: U-ET-CP 006, Multi Product Calibrator & TC Simulation Adaptor |
| | J-TYPE | -10 °C to 1200 °C | |
| | N-TYPE | -200 °C to 1300 °C | |
| | K-TYPE | -200 °C to 1370 °C | |

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|--|--------------------|--------------------------------------|--|
| Electrical Simulation – Measure & Generate Mode (TC) (continued) | | | Calibration procedure: U-ET-CP 006, Multi Product Calibrator & TC Simulation Adaptor |
| E-TYPE | -250 °C to 1000 °C | 0.25 °C | |
| R-TYPE | 0 °C to 1700 °C | 0.60 °C | |
| S-TYPE | 0 °C to 1700 °C | 0.60 °C | |
| B-TYPE | 600 °C to 1800 °C | 0.81 °C | |

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.

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