



INTERNATIONAL
ACCREDITATION
SERVICE®

CERTIFICATE OF ACCREDITATION

This is to attest

AL YUSR INTERNATIONAL LLC

GHALA AL SANIAH, BOUSHER, PO BOX: 3278
MUSCAT, 130, OMAN

Calibration Laboratory CL-139

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, 2027

Effective Date April 20, 2026



International Accreditation Service

Issued under the authority of IAS management

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SCOPE OF ACCREDITATION

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Accredited to ISO/IEC 17025:2017

Effective Date April 20, 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>			
Dial Indicator (Plunger)	0 mm to 50 mm 50 mm to 100 mm	0.013 mm 0.013 mm	Using LMM by Direct method
External Micrometers	0 mm to 25 mm	1.3 µm	Using Gauge Block Set by Direct method
Calipers	0 mm to 800 mm	10 µm	Using Gauge Block Set, Setting Rods by Direct Method
Angle protractor ⁵	0° to 90° (4 quadrant)	0.04°	Using Angle gauge block set. by Direct Method
Thickness Gauge	0 mm to 10 mm	6 µm	Using Gauge Block by Direct method
Coating Thickness Gauge	0 mm to 8 mm	2.1 µm	Using standard shims by direct method
Test Sieves ⁵	100 µm to 100 mm	3 µm	Using Image Measuring machine by direct method
Height Gauges	0 mm to 600 mm	7.7 µm	Using Gauge Block Set and Setting Rods, by direct Method
Depth Gauges	0 mm to 200 mm	7 µm	Using Gauge Block Set and Setting Rods, by direct method
Setting rod	0 mm to 600 mm	5 µm	Using LMM by Direct 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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Length Measuring Machine ⁵	0 mm to 20 mm 20 mm to 200 mm 200 mm to 500 mm 500 mm to 800 mm	1.6 µm 1.9 µm 4.2 µm 5.4 µm	Using Gauge Block Set and Setting Rods, by direct method
Video Measuring Machine ⁵ / Profile Projector ⁵ / Image Measuring Machine ⁵	Linear X axis: 0 mm to 200 mm Y axis: 0 mm to 100 mm Angle: 0° to 90° (4 quadrant)	1.1 µm 0.89 µm 0.0017°	Using Gauge Block set, and Angle gauges by Direct method
Mechanical			
Mass – Balances ⁵ and Scales ⁵	1 mg to 120 g 120 g to 220g 220 to 2 kg 2 kg to 6 kg 6 kg to 35 kg 35 kg to 2000 kg	0.08 mg 0.17 mg 3.4 mg 3.4 mg 0.11 g 190 g	Using standard weights (Class E2, F1 and M1) by direct method
Standard weights	1 mg 2 mg 5 mg 10 mg 20 mg 50 mg 100 mg 200 mg 500 mg 1 g 2 g 5 g 10 g 20 g 50 g 100 g 200 g 500 g 1 kg 2 kg 5 kg 10 kg 20 kg	0.02 mg 0.02 mg 0.02 mg 0.02 mg 0.02 mg 0.02 mg 0.03 mg 0.03 mg 0.04 mg 0.04 mg 0.05 mg 0.07 mg 0.08 mg 0.1 mg 0.12 mg 0.2 mg 0.4 mg 2 mg 2 mg 4 mg 10 mg 100 mg 200 mg	Using Class E2 / F1 standard weights & weighing balance as per ABBA method as per OIML standard.
Hydraulic Pressure - (Pressure Gauges Pressure Recorders Pressure Transmitter)	6 bar to 60 bar 60 bar to 700 bar 700 bar to 1200 bar 1200 bar to 2000 bar	0.36 bar 1.9 bar 5.8 bar 29 bar	Using Dead Weight Tester by Direct method

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Hydraulic Pressure ⁵ – (Pressure Gauges Pressure Recorders Pressure Transmitter)	0 bar to 40 bar 40 bar to 100 bar 100 bar to 200 bar 200 bar to 400 bar 400 bar to 800 bar 800 bar to 1200 bar	0.11 bar 0.29 bar 0.58 bar 1.2 bar 2.9 bar 5.8 bar	Using Pressure Gauge by Comparison method
Pneumatic Pressure ⁵ – (Pressure Gauges)	0 bar to 2 bar -1 bar to 20 bar	0.05 % + 0.002 bar 0.03 % + 0.002 bar	Using Pressure Calibrator – by Comparison method
Pneumatic Pressure – Pressure Relief Valves ⁵	0 bar to 30 bar 30 bar to 400 bar	0.19 bar 0.3 bar	Using Reference Pressure Gauge by direct method
Force - Tension Tensile Tester ⁵ , Universal Testing Machine ⁵ ,	10 kN to 150 kN	0.1 %	Using Load Cell by direct method
Force – Compression Compression Testing Machine ⁵ , Flexural Testing Machine ⁵ , Universal Testing Machine ⁵	30 kN to 300 kN 300 kN to 3000 kN	0.07% 0.03%	Using Load Cell by direct measurement method
Torque Torque Wrenches	0.1 N·m to 25 N·m 25 N·m to 150 N·m 150 N·m to 1500 N·m 1500 N·m to 6000 N·m	1 % 1 % 1.2 % 1 %	Using Torque Analyzer by Direct method
Volume Volumetric flasks, Burettes, Pipettes, Measuring Cylinder, Jar, Flask, Becker, Dispenser, Syringe	20 µL to 100 µL 100 µL to 300 µL 300 µL to 1 mL 1 mL to 5 mL 5 mL to 220 mL	3.3 µL 1.6 µL 1.6 µL 11 µL 0.16 ml	Using Weighing Balance by Gravimetric Method based on ISO 4787
Sound Level Meter ⁵	94 dB & 114 dB (@ 1 kHz)	0.5 dB	Using Acoustic Calibrator by direct method
Density Meter	Discrete Values 0.8197 g/mL 0.8475 g/mL 0.8574 g/mL	0.00013 g/mL 0.00013 g/mL 0.00012 g/mL	Using Standard Density Solution (CRM) by direct measurement method
Thermal			
Temp sensors with/ without Indicator ⁵ (Includes RTD/ Thermocouple/ Dial & Digital Thermometer/ Transmitter)	-50 °C to 250 °C 250 °C to 650 °C 650 °C to 1200 °C	0.4 °C 0.6 °C 2 °C	Using Dry block Calibrator by Direct measurement method
Temperature and Humidity (Hygrometer/ Humidity Meter)	10 %RH to 90 %RH @ 25 °C 20 °C to 60 °C @ 50 %RH	1.8 % 0.24 °C	Using Thermo-hygrometric Transmitter & Temperature Humidity Control Chamber by Comparison method



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Infrared Thermometers	-25 °C to 165 °C 500 °C to 1200 °C	0.38 °C 6.3 °C	Using Black Body by Direct method
Furnaces ⁵ , Ovens ⁵ , Incubators ⁵ , Water baths ⁵ , Freezers ⁵ (Single Sensor Method)	-40 °C to 150 °C 150 °C to 650 °C 650 °C to 1200 °C	0.61 °C 1.2 °C 1.9 °C	Using RTD/ Thermocouple with readout by Direct Method (Single Sensor Method)
Autoclave ⁵	0 °C to 150 °C 0 bar to 10 bar	0.4 °C 0.08 bar	Using Temp sensor with Readout (Single Sensor method) and Pressure Calibrator by direct method
Electrical – DC/LF			
DC Voltage – Source ^{3,5}	33 mV to 100 mV 100 mV to 330 mV 330 mV 3.3 V 3.3 V to 33 V 33 V to 330 V 330 V to 1000 V	1.6 µV 7.0 µV 0.7 mV 0.8 mV 4 mV 9.9 mV	Using Electrical Multiproduct calibrator by Direct Method
DC Voltage – Measure ^{4,5}	10 mV to 100 mV 100 mV to 1 V 1V to 10 V 10V to 100V 100V to 1000V	2.2 µV 8.7 µV 44 µV 0.91 mV 10 mV	Using Precision Multimeter by Direct Method
AC Voltage – Source ^{3,5}	(45 Hz to 20 kHz) 33 mV to 100 mV 100 mV to 1V 1 V to 3.3 V 3.3 V to 33 V 33 V to 330 V (45 Hz to 10 kHz) 330 V to 1000 V	0.006 mV 0.06 mV 0.63 mV 6.4 mV 64 mV 66 mV	Using Electrical Multiproduct calibrator by Direct Method
AC Voltage – Measure ^{4,5}	(10 Hz to 20 kHz) 10 mV to 100 mV 100 mV to 1 V 1 V to 10 V 10 V to 100 V (45 Hz to 10 kHz) 100 V to 300 V 300 V to 1000	20 µV 0.11 mV 1.1 mV 12 mV 31 mV 0.11 V	Using Precision Multimeter by Direct Method

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DC Current – Source ^{3,5}	30 µA to 300 µA 300 µA to 3.3 mA 3.3 mA to 33 mA 33 mA to 330 mA 330 mA to 3 A 3 A to 11 A 11 A to 20 A	0.058 µA 0.26 µA 2.6 µA 0.05 mA 0.25 mA 0.99 mA 2.5 mA	Using Electrical Multiproduct calibrator by Direct Method
DC Current - Measure ^{4,5}	10 µA to 100 µA 100 µA to 1 mA 1 mA to 10 mA 10 mA to 100 mA 100 mA to 3 A 3 A to 10 A	0.012 µA 0.059 µA 0.55 µA 6 µA 0.32 mA 11 mA	Using Precision Multimeter by Direct Method
AC Current – Source ^{3,5}	(45 Hz to 1 kHz) 30 µA to 330 µA 330 µA to 3.3 mA 3.3 mA to 33 mA 33 mA to 1 A 1 A to 20 A	0.13 µA 1.2 µA 0.01 mA 0.14 mA 3 mA	Using Electrical Multiproduct calibrator by Direct Method
AC Current - Measure ^{4,5}	(45 Hz to 1 kHz) 10 mA to 1 A 1 A to 3 A 3 A to 10 A	9.9 µA 0.35 mA 8 mA	Using Precision Multimeter by Direct Method
DC Resistance – Source ^{3,5}	50 µΩ to 200 µΩ 0.5 mΩ to 2 mΩ 5 mΩ to 20 mΩ 50 mΩ to 200 mΩ 0.5 mΩ to 2 Ω	0.23 Ω 0.13 µΩ 0.8 µΩ 0.02 mΩ 0.21 mΩ	Ductor Standard Resistors by Direct Method
	0 Ω to 10.999 Ω 11 Ω to 32.999 Ω 33 Ω to 109.999 Ω 110 Ω to 329.999 Ω 0.33 kΩ to 3.29999 kΩ 3.3 kΩ to 10.9999 kΩ 11 kΩ to 32.9999 kΩ 33 kΩ to 109.999 kΩ 110 kΩ to 329.999 kΩ 0.33 MΩ to 1.09999 MΩ 1.1 MΩ to 3.29999 MΩ 3.3 MΩ to 10.9999 MΩ 11 MΩ to 32.9999 MΩ 33 MΩ to 109.999 MΩ 110 MΩ to 329.999 MΩ 100 MΩ to 900 MΩ 1 GΩ to 9 GΩ	0.6 mΩ 0.9 mΩ 1.5 mΩ 3.7 mΩ 8.2 mΩ 80 mΩ 250 mΩ 810 mΩ 4.6 Ω 15 Ω 75 Ω 280 Ω 1.5 kΩ 15 kΩ 0.15 MΩ 0.6 MΩ 0.012GΩ	Using Electrical Multiproduct calibrator and Insulation Tester Calibration Standard by Direct Method



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	10 GΩ to 90 GΩ	0.036GΩ	
DC Resistance – Measure ^{4,5}	0 Ω to 10 Ω 10 Ω to 100 Ω 100 Ω 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 1.5 mΩ 1.5 Ω 0,03 kΩ 1.2 kΩ 12 kΩ 1 MΩ	Using Precision Multimeter by Direct Method
Capacitance – Source ^{3,5}	1 nF to 300 nF @ 1 kHz 1 uF to 30 uF @ 100 Hz 100 uF to 1 mF @ 50 Hz	0.2 nF 0.04 μF 0.1 mF	Using Electrical Multiproduct calibrator by Direct Method
Capacitance – Measure ^{4,5} (50 Hz)	1nF to 30nF 30nF to 100nF 100pF to 300nF 300nF to 1μF 1μF to 3μF 3μF to 30μF 30μF to 100μF 100μF to 300μF	5.9 pF 0.1 nF 0.3 nF 1.2 nF 3.1 μF 0.03 μF 0.12 μF 0.31μF	Using Precision Multimeter by Direct Method
Electrical Temperature Simulation ⁵ (Thermocouples) Type J Type K Type T	-210 °C to 1200 °C -200 °C to 1372 °C -250 °C to 400 °C	0.3 °C 0.4 °C 0.7 °C	Using Electrical Multiproduct calibrator by Direct Method
Time and Frequency			
Stopwatch ⁵	10 s to 60 s 60 s to 7200 s	0.05 s 0.58 s	Using Stopwatch by comparison method
Tachometer (Rotational speed) ⁵ Contact	100 rpm to 6000 rpm	2.1 %	RPM Source with Tachometer by Comparison method
Non-contact tachometer ⁵	60 rpm to 60000 rpm	0.45%	Fluke Calibrator/ Transmille MFC with optical Tachometer by Direct method
Optical Radiation			
Lux Meter	350 lux to 10000 lux 1000 lux to 20000 lux	3.1 % 5.2 %	Using reference lux meter by Comparison 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



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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.

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. While carrying out calibrations at site, laboratory needs to consider thermal coefficient effect wherever applicable.

