



INTERNATIONAL
ACCREDITATION
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CERTIFICATE OF ACCREDITATION

This is to attest

SAUDI ARABIAN ENGINEERING CO. LTD. (SAECO)

SECOND INDUSTRIAL CITY
DAMMAM, 31952, SAUDI ARABIA

Calibration Laboratory CL-187

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 August 1, 2027

Effective Date July 1, 2026



International Accreditation Service

Issued under the authority of IAS management

Visit www.iasonline.org for current accreditation information.

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 101, Brea, California 92821, U.S.A. | www.iasonline.org

SAUDI ARABIAN ENGINEERING CO. LTD. (SAECO)

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Accredited to ISO/IEC 17025:2017

Effective Date July 1, 2026

CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY ^{1,2} (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT (OPTIONAL)
Dimensional			
Caliper	0 mm to 300 mm	6.0 µm	Using Gauge Blocks Set as per ISO 13385-1:2019
Micrometer- Outside	0 mm to 300 mm	6.0 µm	Using Gauge Blocks Set as per ISO 3611-2023
Dial Gauge	0 mm to 150 mm	6.0 µm	Using Gauge Blocks Set as per ISO 9493-2010
Height Gauge	0 mm to 300 mm	8.0 µm	Using Gauge Blocks Set as per ISO 13225-2012
Mechanical			
Weights	50 mg 100 mg 200 mg 500 mg 1 g 5 g 10 g 20 g 50 g 100 g 500 g 1 kg 2 kg 10 kg 20 kg 50 kg 100 kg 200 kg 400 kg	1.0 mg 1.0 mg 1.0 mg 1.0 mg 1.0 mg 1.0 mg 1.0 mg 1.0 mg 1.0 mg 2.0 mg 3.0 mg 3.0 mg 0.10 g 0.10 g 0.10 g 200 mg 200 mg 300 mg 600 mg	Using Standard Weight F2/M1 Class and Balance as per ABBA Method (OIML R-111)

* 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)
Torque Measuring Instruments	2.5 Nm to 400 Nm 400 Nm to 1500 Nm	1.2 Nm 15 Nm	Using Torque Tester – Direct method as per SOP-03 Ver 1.1 based on ISO 6789:2017
Pneumatic Pressure Gauge/ Switch/ Transmitter/ Transducer	-0.8 bar to 35 bar	0.080 bar	Using Pressure Indicator PACE 1000 by comparison method based on RKD-R-6-1
Hydraulic Pressure Gauge/ Switch/ Transmitter/ Transducer	50 psi to 500 psi 500 psi to 10000 psi 10000 psi to 30000 psi	0.65 psi 0.82 psi 9.0 psi	Using Dead Weight Tester - DH Budenberg by comparison method based on RKD-R-6-1
Flow Meters	1 L/min to 9000 L/min	0.022 % (Using Prover)	SOP-09 Syncrotrak liquid flow prover,
	1 L/min to 9000 L/min	0.038 %	E+H Coriolis master meter API 5.6
Thermal			
RTD/Thermocouple Sensor with and without Indicators/ Temperature Gauges/ Thermometers	-20 °C to 155 °C 155 °C to 650 °C 300 °C to 1200 °C	0.13 °C 0.09 °C 0.80 °C	PRT/ S Type Sensor with Temp Readout by comparison method using Dry block/Liquid bath Euramet cg-08
Dry Well Block Calibrators and Temp Baths	-40 °C to 50 °C 50 °C to 650 °C 650 °C to 1200 °C	0.13 °C 0.25 °C 0.71 °C	PRT/ S Type Sensor with Temp Readout by single point calibration in comparison method Euramet Cg-13
Electrical – DC/LF			
DC Voltage Generate ³	1 mV to 330 mV 330 mV to 3.3 V 3.3 V to 33 V 33 V to 330 V 330 V to 1020 V	7.2 µV 0.04 mV 0.42 mV 7.4 mV 0.034 V	Using Fluke 5522A by Direct method Euramet cg-15
DC Current Generate ³	10 µA to 330 µA 330 µA to 3.3 mA 3.3 mA to 33 mA 33 mA to 330 mA 330 mA to 3 A 3 A to 20 A 20 A to 1000 A	0.40 µA 0.003 mA 0.02 mA 0.09 mA 0.04 A 0.96 A 0.96 A	
AC Voltage Generate ³	(10 Hz to 10 kHz) 3 mV to 33 mV 33 mV to 330 mV	9.5 µV 0.80 mV	Using Fluke 5522A by Direct method Euramet cg-15



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AC Voltage Generate ³ continued	330 mV to 3.3 V 3.3 V to 33 V (45 Hz to 10 kHz) 33 V to 330 V 330 V to 1020 V	0.005 V 0.008 V 0.09 V 0.33 V	Using Fluke 5522A by Direct method Euramet cg-15
AC Current Generate ³	(15 Hz to 30 kHz) 33 uA to 0.33 mA 0.33 mA to 3.3 mA 3.3 mA to 33 mA 33 mA to 330 mA 330 mA to 1.09 A (15 Hz to 5 kHz) 1.09 A to 3.3 A 3.3 A to 10.9 A (45 Hz to 1 kHz) 10.9 A to 20 A 20 A to 1000 A	0.50 µA 18 µA 0.34 mA 1.3 mA 33 mA 87 mA 330 mA 0.61 A 1.1 A	
Capacitance Generate ³	0.4 nF to 1.0999 nF 1.1 nF to 3.2999 nF 3.3 nF to 10.9999 nF 11 nF to 109.999 nF 110 nF to 329.999 nF 0.33 µF to 1.0999 µF 1.1 µF to 3.2999 µF 3.3 µF to 10.9999 µF 11 µF to 32.9999 µF 33 µF to 109.999 µF 110 µF to 329.999 µF 330 µF to 1099.9 µF	45 pF 150 pF 0.76 nF 8.0 nF 20 nF 80 nF 1.5 µF 0.51 µF 1.7 µF 5.6 µF 15 µF 56 µF	Using Fluke 5522A by Direct method Euramet cg-15
DC Resistance Generate ³	0.1 Ω to 11 Ω 11 Ω to 33 Ω 33 Ω to 110 Ω 110 Ω to 1.1 kΩ 1.1 kΩ to 11 kΩ 11 kΩ to 110 kΩ 110 kΩ to 1.1 MΩ 1.1 MΩ to 3.3 MΩ 3.3 MΩ to 11 MΩ 11 MΩ to 33 MΩ 33 MΩ to 110 MΩ 110 MΩ to 330 MΩ 330 MΩ to 1100 MΩ	0.70 mΩ 1.3 mΩ 3.2 mΩ 33 mΩ 0.33 Ω 6.6 Ω 0.06 kΩ 0.29 kΩ 0.16 kΩ 0.11 MΩ 0.16 MΩ 1.5 MΩ 3.6 MΩ	
DC Resistance Measure ⁴	1 Ω to 10 Ω 10 Ω to 100 Ω	0.11 mΩ 0.70 mΩ	Using Fluke 8508A by Direct method

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DC Resistance Measure ⁴ cont'd.	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	3.7 mΩ 37 mΩ 0.37 Ω 4.3 Ω 120 Ω 18 kΩ 0.25 MΩ	Using Fluke 8508A by Direct method
DC Voltage Measure ⁴	100 mV to 1 V 1 V to 10 V 10 V to 20 V 20 V to 100 V 100 V to 1000 V	1.2 nV 12 nV 21 nV 0.16 mV 1.6 mV	Fluke 8508A by Direct Method
AC Voltage Measure ⁴	1 mV to 100 mV (20 Hz to 100 kHz) 100 mV to 1 V (20 Hz to 1 MHz) 1 V to 10 V (1 kHz to 1 MHz) 10 V to 20 V (1 kHz to 1 MHz) 20 V to 100 V (1 kHz to 100 kHz) 100 V to 1000 V (55 Hz to 1 kHz)	0.064 mV 0.012 V 0.083 V 0.00052 V 0.016 V 0.047 V	Using Fluke 8508A by Direct method
DC Current Measure ⁴	100 μA to 1 mA 1 mA to 10 mA 10 mA to 100 mA 100 mA to 1 A 1 A to 10 A	10 nA 75 nA 1.9 μA 85 nA 6.2 mA	
AC Current Measure ⁴	(300 Hz to 10 kHz) 100 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 10 A	0.022 μA 0.00023 mA 0.0023 mA 0.021 mA 0.00039 A 0.001 A	
Time and Frequency			
Frequency Generate ³	100 Hz to 1 kHz 1 kHz to 100 kHz	5.7 Hz 13 Hz	Using Fluke 5522A by Direct method Euramet cg-15



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Frequency Measure ⁴	100 Hz to 1 MHz	15 Hz	Using Fluke 8508A 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.

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

⁵The actual frequency applied by the calibrator cannot be selected and may be dependent on the measurement device under calibration. Approximate frequency ranges for a given capacitance or capacitance range may be found in the Fluke 5522A's published specifications.

