CERTIFICATE OF ACCREDITATION

This is to attest that

INDUSTRIAL INSTRUMENTATION CO. LTD

P.O. BOX 35938
DAMMAM, SAUDI ARABIA

Calibration Laboratory CL-195

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 June 13, 2024

Expiration Date August 1, 2025

President

Visit www.iasonline.org for current accreditation information.

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | www.iasonline.org

INDUSTRIAL INSTRUMENTATION CO. LTD

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Accredited to ISO/IEC 17025:2017 *Effective Date June 13, 2024*

CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY[1,2] (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT (OPTIONAL)
Dimensional			
Coating Thickness Gauge	Up to 1500 µm	3.7 µm	Procedure: W/CM/M/01 Using coating thickness standards
Dial Gauge	0 mm to 25 mm	1.2 µm	Procedure: W/CM/M/02 Using dial indicator tester
Vernier Calipers	0 mm to 150 mm	13 µm	Procedure: W/CM/M/03 Multi-function length check
Micrometers	0 mm to 150 mm	6.7 µm	Procedure: W/CM/M/04 Multi-function length check
Mechanical			
Pressure Gauge, Pressure Transmitter, and Pressure Switch	10 psi to 40000 psi	1.4 %	Procedure: W/CM/M/06 Using digital pressure gauge with hydraulic comparator
Pressure relief valve	0.1 bar to 700 bar	2.7 %	Procedure: W/CM/M/07 Using digital pressure gauge with hydraulic comparator and / or using dead weight tester
Torque wrenches	30 N·m to 1500 N·m	0.79 %	Procedure: W/CM/M/05 Using professional torque calibrator
Thermal			
Temperature gauge, and Temperature transmitter	–55 °C to 650 °C	0.87 °C	Procedure: W/CM/T/01 Using temperature bath, reference PRT with reader by comparison method
RTD / Thermocouple with and without indicator	–55 °C to 650 °C	0.87 °C	Procedure: W/CM/T/02 Using RTD calibrator and / or thermocouple calibrator

** 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.*

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY[1,2] (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT (OPTIONAL)
Welding ovens	Up to 500 °C	2.6 °C	Procedure: W/CM/T/03 Using PRT with reader by comparison method
Electrical – DC/LF			
Welding machines	1 A to 750 A 1 V to 50 V @ 50 Hz AC 1 V to 50 V DC	2.5 % 2.5 % 2.5 %	Procedure: W/CM/E/01 Voltmeter and Amperemeter of Welding Power Load Bank

[1]The 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.

[2]When 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.