CERTIFICATE OF ACCREDITATION

This is to attest that

UL LLC

801 KLEIN ROAD, SUITE 200
PLANO, TEXAS 75074, U.S.A.

Calibration Laboratory CL-282

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 January 30,2024

Expiration Date February 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

UL LLC

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Contact Name TJ Farrell **Contact Phone** +1-972-509-1321

Accredited to ISO/IEC 17025:2017 *Effective Date January 30,2024*

CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY[1,2] (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT (OPTIONAL)
Dimensional			
Length Measurement: Airflow Nozzles	0 in to 12 in	0.0027 in + 0.000085 in/in	Using Calipers Direct Method Per ULID-019320
Mechanical			
Pressure Indicating Instruments both Analog & Digital (Pneumatic)	0 psig to 100 psig 0 psig to 500 psig 0 psig to 1000 psig	0.016 psig 0.17 psig 0.34 psig	Mensor CPG2550/CPR2550 Additel ADT761A/ADT160A Additel ADT761A/ADT160A Using Comparison Method Per ULID-018878
Absolute Pressure Indicating Instruments both Analog & Digital (Pneumatic)	8 psia to 17 psia	0.011 %	Mensor CPG2550/CPR2550 Using Comparison Method Per ULID-018878
Low Pressure Indicating Instruments both Analog & Digital (Pneumatic)	-1 inH_2O to 1 inH_2O -5 inH_2O to 5 inH_2O -10 inH_2O to 10 inH_2O -30 inH_2O o 30 inH_2O	0.0033 inH_2O 0.0061 inH_2O 0.013 inH_2O 0.035 inH_2O	Additel ADT761A/ADT160A Additel ADT761A/ADT155 Additel ADT761A/ADT155 Additel ADT761A/ADT155 Using Comparison Method Per ULID-018878
Thermal			
Thermocouples Simulation[3] Type T	-50 ºC to 0 ºC 0 ºC to 100 ºC 100 ºC to 400 ºC	0.23 °C 0.25 °C 0.18 °C	Using Thermocouple Calibrator (PIE 422Plus) by Direct Method Per ULID-019298
Temperature Measuring Instruments (Thermometers, RTDs, Thermocouples)[4]	-40 ºC to 100 ºC	0.021 °C	Using Digital Reference Thermometer & Liquid Bath by Comparison Method Per ULID-019132

** 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.*

[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.

[3]Capability is suitable for the calibration of measuring devices in the stated ranges.

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

Notes:
psig = Pounds per Square Inch Gauge
psia = Pounds per Square Inch Absolute