SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ITH ENGINEERING INC.
5000 Prime Parkway
McHenry, IL 60050
Dean Arnoldussen Phone: 815 363 4900

CALIBRATION

Valid To: January 31, 2025 Certificate Number: 4151.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory at the location above as well as the three satellite laboratories listed below to perform the following calibrations[1, 4]:

I. Mechanical

Parameter/Equipment	Range	CMC[2, 5] (±)	Comments
Pressure – Measure	(0 to 25 000) psi (0 bar to 1724 bar)	3.4 bar	Honeywell/Sensotec model Z pressure transducer with digital display
	(0 to 60 000) psi (0 bar to 4136 bar)	3.4 bar	Additel model ADT681 digital pressure gauge

SATELLITE LABORATORY

ITH ENGINEERING INC.
6815 Shiloh Road East, Suite A3
Alpharetta, GA 30005
Dean Arnoldussen Phone: 815 363 4900

I. Mechanical

Parameter/Equipment	Range	CMC[2, 5] (±)	Comments
Pressure – Measure[3]	(0 to 60 000) psi (0 bar to 4136 bar)	3.4 bar	Additel model ADT681 digital pressure gauge

SATELLITE LABORATORY

ITH ENGINEERING INC.
1650 B Dickinson Ave.
Dickinson, TX 77539
Dean Arnoldussen Phone: 815 363 4900

I. Mechanical

Parameter/Equipment	Range	CMC[2, 5] (±)	Comments
Pressure – Measure[3]	(0 to 60 000) psi (0 bar to 4136 bar)	3.4 bar	Additel model ADT681 digital pressure gauge

SATELLITE LABORATORY

ITH ENGINEERING INC.
C. Paseo del Poeta #36A
Frace, Jardines de Ramon Lopez Velarde
Jerez, Zacatecas 99300
Mexico
Dean Arnoldussen Phone: 815 363 4900

I. Mechanical

Parameter/Equipment	Range	CMC[2, 5] (±)	Comments
Pressure – Measure[3]	(0 to 60 000) psi (0 bar to 4136 bar)	3.4 bar	Additel model ADT681 digital pressure gauge

[1] This laboratory offers commercial calibration service.

[2] Calibration and Measurement Capability Uncertainty (CMC) is the smallest uncertainty of measurement that a laboratory can achieve within its scope of accreditation when performing more or less routine calibrations of nearly ideal measurement standards or nearly ideal measuring equipment. CMCs represent expanded uncertainties expressed at approximately the 95 % level of confidence, usually using a coverage factor of $k = 2$. The actual measurement uncertainty of a specific calibration performed by the laboratory may be greater than the CMC due to the behavior of the customer's device and to influences from the circumstances of the specific calibration.

[3] Field calibration service is available for this calibration. Please note the actual measurement uncertainties achievable on a customer's site can normally be expected to be larger than the CMC found on the A2LA Scope. Allowance must be made for aspects such as the environment at the place of calibration and for other possible adverse effects such as those caused by transportation of the calibration equipment. The usual allowance for the actual uncertainty introduced by the item being calibrated, (e.g., resolution) must also be considered and this, on its own, could result in the actual measurement uncertainty achievable on a customer's site being larger than the CMC.

[4] This scope meets A2LA's *P112 Flexible Scope Policy*.

[5] The type of instrument or material being calibrated is defined by the parameter. This indicates the laboratory is capable of calibrating instruments that measure or generate the values in the ranges indicated for the listed measurement parameter

Accredited Laboratory

A2LA has accredited

ITH ENGINEERING INC.

McHenry, IL

for technical competence in the field of

Calibration

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This laboratory also meets R205 – Specific Requirements: Calibration Laboratory Accreditation Program. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (*refer to joint ISO-ILAC-IAF Communiqué dated April 2017*).

Presented this 13th day of January 2023.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 4151.01
Valid to January 31, 2025

For the calibrations to which this accreditation applies, please refer to the laboratory's Calibration Scope of Accreditation.