SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005
& ANSI/NCSL Z540-1-1994

GAUGE REPAIR SERVICE
365 Van Ness Way #507
Torrance, CA 90501
T. A. Haggstrom   Phone: 310 212 0912

CALIBRATION

Valid To: May 31, 2019   Certificate Number: 1757.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following calibrations[1]:

I. Mechanical

Parameter/Equipment	Range	CMC[2] (±)	Comments
Pressure – Gauges, Transducers, Dead Weight Testers and Transmitters	(1 to 30) psia	0.00047 psia	Mensor 2101
	(0 to 58) psi	0.00013 psi or 0.0003 % indicated value whichever is greater	DH 2111
	(1 to 60) psi (60 to 1000) psi	0.017 psi 0.096 psi	DH 5201
	(1000 to 20 000) psi	2 psi	DH 5304
	(1 to 100) psi	0.019 psi	Ametek MK 750B
	(5 to 6000) psi	0.75 psi	Ametek 10-10
	(5 to 10 000) psi	1.4 psi	Ametek 10-10525
	(59 to 11 000) psi	1.6 psi	Ametek TQ 100
	(60 to 40 000) psi	9 psi	Ruska 2450
	(1 to 100) psia	0.0016 psia	Mensor 2101
	(1000 to 50 000) psi	17 psi	DH 5305-02S
	(5 to 10 000) psi	2.7 psi	Ametek DM-TQ-100
	(200 to 10 000) psi	1.4 psi	DH 5203

WITHDRAWN

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Parameter/Equipment	Range	CMC[2, 3, 5] ($\pm$)	Comments
Pressure – Gauges, Transducers, Dead Weight Testers and Transmitters (cont)	(0 to 10 000) psi (0 to 6000) psi (0 to 2000) psi	1.1 psi 0.56 psi 0.15 psi	Mensor 2101 Mensor CPG2500
Absolute Pressure and Vacuum Gauges	(0 to 760) mmHg	0.005 mmHg	Meriam manometer
Pressure – Pneumatic	(200 to 10 000) psi	1.4 psi	DH dead weight testing model 5203
Torque[4] – Screwdrivers, Multipliers, and Wrenches	15 in·oz to 2000 ft·lbf (5 to 250) in·lbf (1 to 250) ft·lbf (500 to 10 000) ft·lbf	1 % 0.5 % 1 % 1 %	CDI 2000-5-02 CDI 342-11-0 Suretest 500 ST Futek sensor
Torque[4] – Transducers	(15 to 200) in·oz (4 to 400) in·lbf (75 to 1000) in·lbf (25 to 250) ft·lbf (60 to 2000) ft·lbf	0.075 % + 0.6R 0.013 % + 0.6R 0.06 % + 0.6R 0.04 % + 0.6R 0.12 % + 0.6R	Weights and arm/wheel

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[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] In the statement of CMC, R is the numerical value of the resolution of the device.

[4] The contributions from the "best existing device" are not included in the CMC claim.

[5] In the statement of CMC, percentages are percentage of reading, unless otherwise indicated.

Accredited Laboratory

A2LA has accredited

GAUGE REPAIR SERVICE

Torrance, CA

for technical competence in the field of

Calibration

WITHDRAWN

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *General requirements for the competence of testing and calibration laboratories*. This laboratory also meets the requirements of ANSI/NCSL Z540-1-1994 and 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 8 January 2009*).

Presented this 26th day of July, 2017.

President and CEO
For the Accreditation Council
Certificate Number 1757.01
Valid to May 31, 2019

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