



Instrument Calibration Solutions, Inc.



Certificate of Calibration

67966

Page 1 of 2

Customer Information

Instrument Calibration Solutions
413 Hopewell Ave
Aliquippa, PA 15001

PO #: 2020 Standards
Reference #: 2020 Standards
Account #: IC0304A
SO #: 22570

Instrument Identification

Instrument Id: **01-0050**

Noun: Digital Force Gauge

Serial #: R406143

Mfr: Extech

Model: 475040

Accuracy: $\pm(0.4\%$ of Reading +1Digit)

Certification Information

Reason For Service: Calibration

Technician: Chris Guggemos

Type Of Calibration: Accredited

Cal Date: 03 SEP 20

As Found Condition: In Tolerance

Cal Due: 30 SEP 21

As Left Condition: Left As Found

Temperature: 23.1 °C

Procedure: 33K6-4-433-1 0615 : Rev 6/30/15 Force Gages

Humidity: 45.0 %

Quality Remarks: ISO/IEC 17025:2017

This instrument has been calibrated using standards with accuracies traceable to the National Institute of Standards and Technology, derived from natural physical constants, derived from ratio measurements, or compared to nationally or internationally recognized consensus standards.

Instrument Calibration Solutions' quality system complies with the applicable requirements of ANSI/NCSL Z540-1 and ISO/IEC 17025.

Reported uncertainties and/or test uncertainty ratios (TURs) are expressed as expanded uncertainty values at approximately the 95% confidence level using a coverage factor of K=2.

Statements of compliance, where applicable, are based on test results falling within specified limits with no reduction by the uncertainty of the measurement.

Calibration due dates appearing on the Certificate of Calibration and label are determined by the client for administrative purposes and do not imply continued conformance to specification.

All results contained herein relate only to the item calibrated. This certificate shall not be reproduced except in full, without the written permission of Instrument Calibration Solutions.

David Beier, Director of Quality

Darrell Martin, Director of Services

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Please visit our website www.instrumentcs.com and give us your feedback.

413 Hopewell Avenue
Aliquippa, PA 15001

INSTRUMENT CALIBRATION SOLUTIONS, INC.

Phone: (724) 846-0136

Fax: (724) 846-0137

"Providing real solutions for your calibration needs..."



Calibration History

WO#	Reason For Service	Type Of Cal	As Found Condition	As Left Condition	Cal Date	Cal Due
39737	Calibration	Normal	In Tolerance	Left As Found	12 May 2016	31 May 2017
46164	Calibration	Normal	In Tolerance	Left As Found	20 Jun 2017	30 Jun 2018
52395	Calibration	Accredited	In Tolerance	Left As Found	02 Jul 2018	31 Jul 2019
60366	Calibration	Accredited	In Tolerance	Left As Found	01 Aug 2019	31 Aug 2020
67966	Calibration	Accredited	In Tolerance	Left As Found	03 Sep 2020	30 Sep 2021

✓ In Tolerance ✗ Out of Tolerance

Calibration Data

Range	Nominal	As Found	As Left	Min	Max
Force Test Tension					
0 to 176.4 oz	16.0 oz	16.00	✓ As Found	15.90	16.10
	32.0 oz	32.10	✓ As Found	31.80	32.20
	64.0 oz	64.20	✓ As Found	63.70	64.30
	96.0 oz	96.30	✓ As Found	95.55	96.45
	128.0 oz	128.50	✓ As Found	127.45	128.55
	176.0 oz	176.65	✓ As Found	175.25	176.75
Force Test Compression					
0 to 176.4 oz	16.0 oz	15.96	✓ As Found	15.90	16.10
	32.0 oz	32.07	✓ As Found	31.80	32.20
	64.0 oz	64.13	✓ As Found	63.70	64.30
	96.0 oz	96.30	✓ As Found	95.55	96.45
	128.0 oz	128.40	✓ As Found	127.45	128.55
	176.0 oz	176.55	✓ As Found	175.25	176.75

End of Datasheet

Calibration Standards

<u>NIST Traceable #</u>	<u>Instrument ID#</u>	<u>Description</u>	<u>Model</u>	<u>Calibration Date</u>	<u>Date Due</u>
61139	01-0001	Weight Set, Slotted	Class 6	04 OCT 2019	31 OCT 2021
61144	01-0159	Weight, Hanger 5 lb	5.0 lb	07 OCT 2019	31 OCT 2021
64042	01-0312	Temperature Humidity Logger	GSP-6	05 FEB 2020	28 FEB 2021
65456	01-0212	Weight Set, 1mg to 10kg	OIML F1	17 APR 2020	30 APR 2022
67381	01-0235	Balance, 4100g	PA4101	09 JUL 2020	31 JUL 2021