



CERTIFICATE OF ACCREDITATION

ANSI National Accreditation Board

11617 Coldwater Road, Fort Wayne, IN 46845 USA

This is to certify that

Larson Systems, Inc.

13847 Aberdeen St. NE

Ham Lake, MN 55304

has been assessed by ANAB and meets the requirements of international standard

ISO/IEC 17025:2017

while demonstrating technical competence in the field of

CALIBRATION

Refer to the accompanying Scope of Accreditation for information regarding the types of activities to which this accreditation applies

AC-2847

Certificate Number



ANAB Approval

Certificate Valid Through: 02/04/2022
Version No. 001 Issued: 02/04/2020



This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. 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).



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

Larson Systems, Inc.

13847 Aberdeen St. NE
 Ham Lake, MN 55304
 Tim Larson
 763-780-2131

CALIBRATION

Valid to: **February 4, 2022**

Certificate Number: **AC-2847**

Length – Dimensional Metrology

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Force/Length Measurement Instrument	(0 to 13) in	320 μin	Gage Blocks
	(13 to 25) in	490 μin	
	(25 to 36) in	680 μin	
	(36 to 48) in	900 μin	

Mass and Mass Related

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Force Measurement	(2 to 250) lbf	0.013% of reading	Dead weight
	(250 to 1 000) lbf	0.015% of reading	Dead Weights w/ Fixture
	(1 000 to 11 500) lbf	0.013% of reading	Dead Weight w/ Fixture
	(11 to 200) lbf	0.034 lbf	200 lb Force Meter
	(200 to 750) lbf	0.18 lbf	750 lb Force Meter
	(750 to 2 000) lbf	0.51 lbf	2000 lb Force Meter
	(200 to 10 000) lbf	0.035% of reading	10K Force Meter
	(10 000 to 50 000) lbf	0.035% of reading	50K Force Meter



Mass and Mass Related

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Torque	(0.09 to 3) lbf•in	0.031% of Reading	Dead Weight and Torque Arm
	(3 to 500) lbf•in	0.031% of Reading	
	(500 to 3 120) lbf•in	0.031% of Reading	

Calibration and Measurement Capability (CMC) is expressed in terms of the measurement parameter, measurement range, expanded uncertainty of measurement and reference standard, method, and/or equipment. The expanded uncertainty of measurement is expressed as the standard uncertainty of the measurement multiplied by a coverage factor of 2 ($k=2$), corresponding to a confidence level of approximately 95%.

Notes:

1. On-site calibration service is available for this parameter, since on-site conditions are typically more variable than those in the laboratory, larger measurement uncertainties are expected on-site than what is reported on the accredited scope.
2. This scope is formatted as part of a single document including Certificate of Accreditation No. AC-2847.

Vice President

