



# CERTIFICATE OF ACCREDITATION

## The ANSI National Accreditation Board

Hereby attests that

**Larson Systems, Inc.**  
**13847 Aberdeen St. NE**  
**Ham Lake, MN 55304**

Fulfills the requirements of

**ISO/IEC 17025:2017**

In the field of

**CALIBRATION**

This certificate is valid only when accompanied by a current scope of accreditation document.  
The current scope of accreditation can be verified at [www.anab.org](http://www.anab.org).

A handwritten signature in black ink, appearing to read 'R. Douglas Leonard Jr.', is positioned above a horizontal line.

R. Douglas Leonard Jr., VP, PILR SBU

Expiry Date: 04 February 2022  
Certificate Number: AC-2847



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 <sup>1</sup>	(0 to 13) in	320 $\mu$ in	Gage Blocks
	(13 to 25) in	490 $\mu$ in	
	(25 to 36) in	680 $\mu$ in	
	(36 to 48) in	900 $\mu$ in	

#### Mass and Mass Related

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Force Measurement <sup>1</sup>	(2 to 250) lbf	0.013 % of reading	Dead weight
	(250 to 1 000) lbf	0.014 % of reading	Dead Weights w/ Fixture
	(1 000 to 11 500) lbf	0.013 % of reading	Dead Weight w/ Fixture
	(11 to 200) lbf	0.029 lbf	200 lb Force Meter
	(200 to 750) lbf	0.16 lbf	750 lb Force Meter
	(750 to 2 000) lbf	0.4 lbf	2000 lb Force Meter
	(200 to 10 000) lbf	0.035 % of reading	10K Force Meter
	(10 000 to 50 000) lbf	0.037 % of reading	50K Force Meter

**Mass and Mass Related**

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Torque <sup>1</sup>	(0.09 to 3) lbf•in	0.03 % of Reading	Dead Weight and Torque Arm
	(3 to 500) lbf•in	0.03 % 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.



R. Douglas Leonard Jr., VP, PILR SBU

