



# CERTIFICATE OF ACCREDITATION

## The ANSI National Accreditation Board

Hereby attests that

**Raptor Scientific PPS**  
**81 Fuller Way**  
**Berlin, CT 06037**

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).

Jason Stine, Vice President

Expiry Date: 12 April 2026

Certificate Number: AC-3930



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

### Raptor Scientific PPS

81 Fuller Way  
Berlin, CT 06037

Brandon Rathbun 860-829-0001  
brathbun@raptor-scientific.com www.raptor-scientific.com

### CALIBRATION

Valid to: **April 12, 2026**

Certificate Number: **AC-3930**

#### Electrical – DC/Low Frequency

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
4-Wire Measure Resistance	18 $\Omega$	4.7 m $\Omega$	Comparison to Keithley DM65000, Decade box HARS-LX-0.1-K
	160 $\Omega$	26 m $\Omega$	
	1 k $\Omega$	0.17 $\Omega$	
	100 k $\Omega$	22 $\Omega$	
	2 M $\Omega$	8.3 k $\Omega$	

#### Length – Dimensional Metrology

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Calibration Beams <sup>1</sup> (X Values)	(11 to 22) in	0.001 4 in	Comparison to Gage blocks, Length Rods, Gage Pins.
Calibration Beams <sup>1</sup> (Y Values)	(0 to 1) in	0.000 75 in	Comparison to Gage blocks, Length Rods, Gage Pins.
Calibration Beam <sup>1</sup> (X and Y Values)	(11 to 60) in	0.002 6 in	Comparison to CMM Arm
MW904 Interface Plate <sup>1</sup>	(8 to 9) in	0.000 11 in	Comparison to Gage blocks, Gage Pins.
POI Mass Standard Length <sup>1</sup>	(0 to 12) in	0.001 4 in	Comparison to Gage blocks, Caliper.
Proving Rotor <sup>1</sup>	(2 to 34) in	0.002 6 in	Comparison to CMM Arm

## Mass and Mass Related

Parameter/Equipment	Range	Expanded Uncertainty of Measurement (+/-)	Reference Standard, Method, and/or Equipment
Weights / Masses	(1 to 200) g	0.000 64 g	Comparison to Balance (WZ214S)
	(200 to 2 000) g	0.005 4 g	Comparison to Balance (MSE2203S)
	(2 000 to 6 200) g	0.061 g	Comparison to Balance (LA6200S)
	(6 200 to 8 000) g (8 000 to 16 000) g (16 000 to 34 000) g	0.7 g 1.1 g 1.8 g	Comparison to Balance (BP34000-P)
Center of Gravity Moment Calibration <sup>1,2</sup>	(0 to 6) lb-in (0 to 60) lb-in (0 to 150) lb-in (0 to 5 000) lb-in (0 to 36 000) lb-in	(M x 0.000 33) + 0.00017 lb-in (M x 0.000 27) + 0.00084 lb-in (M x 0.000 13) + 0.053 lb-in (M x 0.000 11) + 0.069 lb-in (M x 0.000 23) + 6.4 lb-in	Mass (Weights) & Distance (Beams) Method
Moment of Inertia Calibration <sup>1,2</sup>	(0 to 526 789) lb-in <sup>2</sup> (0 to 790 184) lb-in <sup>2</sup> (0 to 2 300 000) lb-in <sup>2</sup>	(R x 0.000 25) + 0.027 lb-in <sup>2</sup> (R x 0.000 18) + 0.82 lb-in <sup>2</sup> (R x 0.000 29) + 60 lb-in <sup>2</sup>	Mass (Weights) & Distance (Beams) Method

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. M = moment reading in lb-in, R = moment reading in lb-in<sup>2</sup>.
3. This scope is formatted as part of a single document including Certificate of Accreditation No. AC-3930.



Jason Stine, Vice President