



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

J. A. KING & COMPANY, LLC.  
2827 Hangar Road  
Memphis, TN 38118  
Connie Foster Phone: 800 327 7727

CALIBRATION

Valid To: August 31, 2017

Certificate Number: 1741.15

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following calibrations<sup>1</sup>:

I. Mechanical

Parameter/Equipment	Range	CMC <sup>2,4,5</sup> (±)	Comments
Scales & Balances <sup>3</sup>	(1 to 500) mg	0.013 mg + 0.6R	ASTM Class 1 weights (applied load)
	Up to 5 g	0.043 mg + 0.6R	
	Up to 10 g	0.062 mg + 0.6R	
	Up to 30 g	0.096 mg + 0.6R	
	Up to 50 g	0.17 mg + 0.6R	
	Up to 100 g	0.31 mg + 0.6R	
	Up to 200 g	0.63 mg + 0.6R	
	Up to 300 g	0.92 mg + 0.6R	
	Up to 500 g	1.5 mg + 0.6R	
	Up to 1000 g	3.1 mg + 0.6R	
	(> 1 to 35) kg	3.1 mg per 1000 g + 0.6R	
	(5 to 10) g	0.04 % + 0.6R	
(10 to 500) g	0.025 % + 0.6R		
501 g to 20 kg	0.017 % + 0.6R		
(> 20 to 5000) kg	0.017 % per 20 kg + 0.6R		
Up to 1000 lb	0.017 % + 0.6R	Class F weights (applied load)	
(1000 to 120 000) lb	0.017 % per 1000 lb + 0.6R		

*Peter M. King*

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<sup>1</sup> This laboratory offers commercial calibration service and field calibration service.

<sup>2</sup> 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.

<sup>3</sup> Field calibration service is available for this calibration and this laboratory meets A2LA R104 – *General Requirements: Accreditation of Field Testing and Field Calibration Laboratories* for these calibrations. Please note the actual measurement uncertainties achievable on a customer's site can normally be expected to be larger than the CMC found on the A2LA Scope. Allowance must be made for aspects such as the environment at the place of calibration and for other possible adverse effects such as those caused by transportation of the calibration equipment. The usual allowance for the actual uncertainty introduced by the item being calibrated, (e.g. resolution) must also be considered and this, on its own, could result in the actual measurement uncertainty achievable on a customer's site being larger than the CMC.

<sup>4</sup> In the statement of CMC,  $R$  is the numerical value of the resolution of the device in grams.

<sup>5</sup> In the statement of CMC, a percent (%) refers to a percent of reading unless otherwise noted.



## *Accredited Laboratory*

A2LA has accredited

**J.A. KING & COMPANY, LLC**

*Memphis, TN*

for technical competence in the field of

### Calibration

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/NCSLI Z540-1-1994 and any additional program requirements in the field of calibration. 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 2<sup>nd</sup> day of June 2015.

A handwritten signature in black ink, reading "Peter Abney".

President & CEO  
For the Accreditation Council  
Certificate Number 1741.15  
Valid to August 31, 2017

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