



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

JLW INSTRUMENTS, INC
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CALIBRATION

Valid To: June 30, 2013

Certificate Number: 1753.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following calibrations¹:

I. Mechanical

Parameter/Equipment	Range	CMC ² (±)	Comments
Force – Measuring Equipment ³			
Dynomometers, Gram Gauges, Load Sensors	(0.02 to 1000) lbf (1000 to 10 000) lbf	0.03 % of reading 3.3 lbf	Dead weights Dead weights Dillon force machine
Hydraulic Grip Pinch Gauges	(0 to 200) lbf (0 to 50) lbf	3.2 lbf 0.48 lbf	Load cell with indicator Force gauge
Crosshead Distance	(0 to 20) in	0.0012 in	High resolution travel encoder
Crosshead Speed	(0 to 80) in/min	0.6 in/min	
Pressure – Measuring Equipment			
Hydraulic Deadweight Testers	(0 to 15 000) psig	0.0095 % of reading	Deadweight tester (cross-floating)
Pneumatic Deadweight Testers	(0 to 30) psig (0 to 1600) psig	0.008 % of reading 0.0096 % of reading	

Parameter/Equipment	Range	CMC ² (±)	Comments
Pressure – Measuring Equipment (cont)			
Gauges, Transducers Pneumatic	(1 to 100) psig	0.06 psig	Deadweight tester
Water	(10 to 15 000) psig	0.06 psig	
Oil	(10 to 15 000) psig	0.06 psig	
Vacuum Gauges	(0 to 29) inHg	0.11 inHg	Pressure calibrator
Torque – Measuring Equipment			
Torque Testers, Transducers	(0 to 120) ft·lbf (10 to 200) ft·lbf (200 to 2000) ft·lbf	(0.02 + 0.003) in·lbf (0.04 + 0.003) ft·lbf (0.05 + 0.003) in·lbf	Dead weights and torque wheel
Torque Watches	(0.3 to 215) in·oz	0.3 % of reading	Dead weights and torque wheel
Torque – Generating Equipment			
Torque Screwdrivers, Wrenches, Multipliers	(0.01 to 12) lbf·in (0 to 100) lbf·ft (100 to 2000) lbf·ft	0.3 % of reading 0.2 % of reading 0.4 % of reading	Class F weights and torque wheel Torque transducer with digital readout

¹ This laboratory offers commercial calibration service.

² Calibration and Measurement Capability (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. Calibration and Measurement Capabilities 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.

³ 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.



The American Association for Laboratory Accreditation

World Class Accreditation

Accredited Laboratory

A2LA has accredited

JLW INSTRUMENTS, INC.

Chicago, IL

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/NCSL 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 5th day of January 2012.





President & CEO

For the Accreditation Council
Certificate Number 1753.01
Valid to June 30, 2013
Revised: May 29, 2013

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