

Scope of Accreditation For Calibration Services, Inc.

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Emlenton, PA 16373
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In recognition of a successful assessment to ISO/IEC 17025:2005, accreditation is granted to **Calibration Services, Inc** to perform the following Calibrations:

Accreditation granted through: **August 27, 2011**

Calibration

Length - Dimensional Metrology – Other

Calibration Parameter/Equipment	Range	Best Measurement Capability(+/-) ²	Remarks
Dimensional ¹ Extensometers Deflectometers	0.0001 in to 1 in 1.001 in to 2 in	96 μin 148 μin	In Accordance with ASTM E83
Dimensional ¹ LVDT LDT Dial Indicators	0.001 in to 1 in 1.001 in to 2 in	96 μin 148 μin	In Accordance with ASTM D6027
Dimensional ¹ Crosshead Displacement Speed Controls	0.001 in to 5 in	(272 + 185L) μin	In Accordance with ASTM E2309

Mass – Pressure

Calibration Parameter/Equipment	Range	Best Measurement Capability(+/-) ²	Remarks
Pressure ¹ Transducer Analog Gauges	1 psi to 10 000 psi	0.0073 psi + 0.125% of applied pressure	In Accordance with ASTM D5720

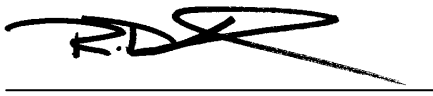
Mass – Force

Calibration Parameter/Equipment	Range	Best Measurement Capability(+/-) ²	Remarks
Force ¹ Compression: Mechanical Testing Machines and Force Measurement Devices	38 lbf to 700 000 lbf	0.14 lbf + 0.10 % of applied load	In Accordance with ASTM E4 Using Load Cells
Force ¹ Tension: Mechanical Testing Machines and Force Measurement Devices	36 lbf to 250 000 lbf	0.12 lbf + 0.10 % of applied load	
Force ¹ Mechanical Testing Machines and Force Measurement Devices	0.002 g to 45 359 g	0.0012 g + 0.01 % of applied load	In Accordance with ASTM E4 Using Dead Weights

Notes:

- 1) Laboratory offers calibration services at the laboratory's own facilities and at the client or other agreed upon facilities.
- 2) Best uncertainties represent expanded uncertainties at approximately the 95% confidence level using a coverage factor of k=2.
- 3) *L* = Length in inches

Approved by: _____



R. Douglas Leonard Jr.
 Chief Technical Officer

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