SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

PRESCOTT INSTRUMENTS LTD
Unit F, Northway Lane Trading Estate, Northway Lane
Tewkesbury, Gloucester, UNITED KINGDOM
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CALIBRATION

Valid To: July 31, 2025 Certificate Number: 4023.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following calibrations[1, 5]

I. Dimensional

Parameter/Equipment	Range	CMC[2, 4] (±)	Comments
Linear Encoder & Indicator – Heidenhaim ND287	Up to 15 mm (15 to 240) mm (15 to 300) mm	0.06 % 0.02 % 0.03 %	Class A, B, C, D

II. Mechanical

Parameter/Equipment	Range	CMC[2, 6] (±)	Comments
Dynamic Torque[3] – Measure	(1 to 80) dN·m	0.14 dN·m	MDR/ODR testing equipment, temperature meter and torque standard

Parameter/Equipment	Range	CMC[2, 4, 6] (±)	Comments
Force & Materials –			
Testing Machines[3]	200 N to 2.5 kN	0.27 %	Class 0.5, 1, 2 and 3 machines to BS ISO 7500-1
Tension & Compression	2000 N to 25 kN 200 N to 200 kN (1 to 500) N	0.25 % 0.20 % 0.11 %	
Displacement	Up to 50 mm	0.16 %	
Torque – Measuring Equipment	(1 to 80) dN·m	0.12 dN·m	Calibrations performed in a static mode
Angle	(0 to 180)°	8.6 arc seconds	Calibrations performed in a static mode
Direct Verification of Durometers –			
Indentor Extension & Shape:			
Diameter	(0 to 25) mm	0.0082 mm	Optical inspection under magnification or video comparator
Radius	(0 to 25) mm	0.0078 mm	
Angle	(0 to 90)°	0.11°	
Extension	(0 to 25) mm	0.0078 mm	
Indentor Display	(0 to 100) Duro	0.40 Duro	Gage blocks
Spring Calibration – Force			
Type Shore A, B, C, D, DO, E, M, O, OOO	(0 to 100) Duro	0.70 Duro	ASTM D2240
Type IRHD	N (30 to 100) Duro L (9.9 to 34.9) Duro M (30 to 100) Duro	0.78 Duro 0.43 Duro 4.2 Duro	ISO-48-9
Mooney Viscometers[3]	(0 to 100) Mooney	0.31 Mu	ASTM D1646

III. Thermodynamics

Parameter/Equipment	Range	CMC[2, 6] (±)	Comments
Temperature[3] – Measure	(25 to 300) °C	0.19 °C	Comparison with PRT/indicator

[1] This laboratory offers commercial calibration service and field calibration service.

[2] 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. CMC 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. 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.

[4] In the statement of CMC, percentages are percentage of reading, unless otherwise indicated.

[5] This scope meets A2LA's *P112 Flexible Scope Policy*

[6] The type of instrument or material being calibrated is defined by the parameter. This indicates the laboratory is capable of calibrating instruments that measure or generate the values in the ranges indicated for the listed measurement parameter.

Accredited Laboratory

A2LA has accredited

PRESCOTT INSTRUMENTS LTD

Gloucester, UNITED KINGDOM

for technical competence in the field of

Calibration

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This laboratory also meets R205 – Specific Requirements: Calibration Laboratory Accreditation Program. 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).

Presented this 31st day of July 2023.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 4023.01
Valid to July 31, 2025

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