

CERTIFICATE OF CALIBRATION

ISSUED BY AVON-DYNAMIC CALIBRATION

Date of Issue 12 November 2025

Certificate Number K1048069



0199



CALIBRATE MEASURE INNOVATE

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Approved Signatories:

Mr S.Tregaskes

FOR: WESTERN TOOLING SERVICES LTD.
BRISTOL, BS5 8AN

Temperature: 20 °C ± 2 °C Date of Calibration: 12 November 2025

Identification Number: WTS 4351 Description: Electronic Height Gauge

Manufacturer: SYLVAC Model Number: HI_CAL 300 V2

Measuring Range: 300 mm Resolution: 0.0005 mm

Probe Size: 3 mm

Calibration Location: Avon Dynamic Calibration Laboratory

Specification: Manufacturers

Linear Accuracy: $\pm (2 + L / 200) \mu\text{m}$

Repeatability: 0.0010 mm Range

Report: The above electronic height gauge has been examined and calibrated using length standards to the above stated specification and the results are detailed below.

Location: Laboratory

Standards used: Length Standards ADC2628 ADC2626
Thermometer ADC3064

Surface Table ADC3241

Length Accessory Set ADC2364

Comments:

The results stated on this certificate relate only to the equipment calibrated

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor $k=2$, providing a coverage probability of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements.

This certificate is issued in accordance with the laboratory accreditation requirements of the United Kingdom Accreditation Service. It provides traceability of measurement to the SI system of units and/or to units of measurement realised at the National Physical Laboratory or other recognised national metrology institutes. This certificate may not be reproduced other than in full, except with prior written approval of the issuing laboratory.

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Results:

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Feature

Tolerance

Results

Linear Accuracy	Download	$\pm (2 + L / 200) \mu\text{m}$	-0.0034 mm
			-0.00012 inch
Linear Accuracy	Bi-directional	$\pm (2 + L / 200) \mu\text{m}$	-0.0034 mm
			-0.00012 inch

Uncertainty of measurement for the linear test: See report on pages 3 and 4

Repeatability	Range	0.0010 mm	0.0005 mm
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Decision Rule:

Conformity / Non-Conformity statements are based on simple acceptance rule (ILAC-G8:09/2019) where Acceptance Limit (AL) equals Tolerance Limit (TL) Provided that the Tolerance Uncertainty Ratio (TUR) $\geq 1:1$

Acceptance Key: "*" - Indicates that the result(s) exceed the tolerance limits of the stated specification. The absence of an "*" indicates the result(s) fall within the tolerance limits of the stated specification.

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probability of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements.

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Avon-Dynamic Calibration Limited

Unit 1, The Old Mill, Chapel Lane, Warmley, Bristol BS15 4NQ

Tel: (0117) 9477846 Fax: (0117) 9477831 www.avon-dynamic.co.uk

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Download - Linear Accuracy Metric

Interval	Tolerance	Results #1	Results #2	Measurement Uncertainty
Zero		Set Zero	Set Zero	
40.0003	± 0.0022	39.9985	39.9990	± 0.0013
60.0002	± 0.0023	59.9990	59.9995	± 0.0015
80.0005	± 0.0024	79.9985	79.9985	± 0.0016
200.0006	± 0.0030	199.9995	199.9995	± 0.0026
299.9984	± 0.0035	299.9950	299.9955	± 0.0034

Measured Linear Error -0.0034

All dimensions stated in mm.

Download - Linear Accuracy Imperial

Interval	Tolerance	Results #1	Results #2	Measurement Uncertainty
Zero		Set Zero	Set Zero	
1.57481	± 0.00009	1.57474	1.57474	± 0.00005
2.36221	± 0.00009	2.36218	2.36218	± 0.00006
3.14963	± 0.00009	3.14954	3.14954	± 0.00006
7.87404	± 0.00012	7.87400	7.87400	± 0.00010
11.81096	± 0.00014	11.81084	11.81084	± 0.00013

Measured Linear Error -0.00012

All dimensions stated in inches.

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The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor $k=2$, providing a coverage probability of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements.

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Bi-Direction Upload - Linear Accuracy Metric

Interval	Tolerance	Results #1	Results #2	Measurement Uncertainty
Zero		Set Zero	Set Zero	
40.0003	± 0.0022	40.0000	40.0000	± 0.0013
60.0002	± 0.0023	60.0015	60.0015	± 0.0015
80.0005	± 0.0024	79.9995	79.9990	± 0.0016
200.0006	± 0.0030	199.9980	199.9985	± 0.0026
299.9984	± 0.0035	299.9955	299.9950	± 0.0034
Measured Linear Error		-0.0034		

All dimensions stated in mm.

Bi-Direction Upload - Linear Accuracy Imperial

Interval	Tolerance	Results #1	Results #2	Measurement Uncertainty
Zero		Set Zero	Set Zero	
1.57481	± 0.00009	1.57480	1.57480	± 0.00005
2.36221	± 0.00009	2.36226	2.36226	± 0.00006
3.14963	± 0.00009	3.14960	3.14958	± 0.00006
7.87404	± 0.00012	7.87394	7.87396	± 0.00010
11.81096	± 0.00014	11.81084	11.81084	± 0.00013
Measured Linear Error		-0.00012		

All dimensions stated in inches.

Repeatability	Test Carried out at Position:	10	mm
Test #1	0.0000	mm deviation	
Test #2	0.0000	mm deviation	
Test #3	0.0000	mm deviation	
Test #4	0.0005	mm deviation	
Test #5	0.0000	mm deviation	
Test #6	0.0001	mm deviation	
Test #7	0.0000	mm deviation	
Test #8	0.0000	mm deviation	
Test #9	0.0005	mm deviation	
Test #10	0.0005	mm deviation	
	Range	0.0005	mm result

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