



Research, Development and Manufacturing of Precision Measuring Systems

Certificate of Calibration

Calibration Performed By:

LMI CORPORATION
101 N. ALLOY DR.
FENTON, MI 48430

For:

LMI CORPORATION
101 N. ALLOY DRIVE
FENTON MI 48430

Gage S/N SK4615
Description 237/238 MINI INSPECTION FIXTURE
Manufacturer LMI CORPORATION
Gage Type STEP MASTER BLOCK
Unit of Meas. METRIC
Temperature 73 F
Humidity 50 %

Gage ID LMI CORPORATION - SK4615
Model No. SK4615
Tol. + 0.005
Tol. - 0.005
Calibrated By ALAN BAGGETT
As Found Condition In
Calibration Results Passed
Cal. Date 7/13/2022

No Cal. Due Date is reported by LMI. This decision is left to customer to best fit their QMS based on freq. of usage

Test Point Item	Nominal	Tol. +	Tol. -	Before	Deviation	After	Deviation 2	Units
01 - 1.00mm Step	1.0000	1.0050	0.9950	1.0050	0.0050	1.0050	0.0050	Metric
02 - 2.00mm Step	2.0000	2.0050	1.9950	2.0050	0.0050	2.0050	0.0050	Metric
03 - 3.00mm Step	3.0000	3.0050	2.9950	3.0030	0.0030	3.0030	0.0030	Metric
04 - 4.00mm Step	4.0000	4.0050	3.9950	4.0030	0.0030	4.0030	0.0030	Metric
05 - 5.00mm Step	5.0000	5.0050	4.9950	5.0030	0.0030	5.0030	0.0030	Metric
06 - 6.00mm Step	6.0000	6.0050	5.9950	5.9970	-0.0030	5.9970	-0.0030	Metric
07 - 7.00mm Step	7.0000	7.0050	6.9950	7.0050	0.0050	7.0050	0.0050	Metric
08 - 8.00mm Step	8.0000	8.0050	7.9950	8.0050	0.0050	8.0050	0.0050	Metric
09 - 9.00mm Step	9.0000	9.0050	8.9950	9.0030	0.0030	9.0030	0.0030	Metric

Findings

Readings are measured from each side down into pocket, not at center
Each step has a slight taper from side to side

Ref Standard	Gage S/N	Standard Due Date	Uncert	NIST No
LMI CORPORATION - 70 985	70 985 648F	6/27/2024		821/253315

It is hereby certified that the above described instrument conforms to the original manufacturer's specifications and has been calibrated using standards whose accuracies are traceable to the NIST within the limitations of the Institute Calibration Services or have been

derived from accepted values of natural physical constants or have been derived by the ratio type of self calibration techniques. Our calibration system satisfies ISO-9001 and IATF 16949 requirements. The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor $k=2$, which for a normal distribution corresponds to a coverage probability of approximately 95%. Measurement Uncertainty is $5.0E-05$ An LMI Lab Scope is available upon request.