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Research, Development and Manufacturing of Precision Measuring Systems

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Cert.# 090823-016

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 SK5572 - 5
Description PONTENTIOMETER MASTER BLOCK
Manufacturer LMI CORPORATION
Gage Type STEP MASTER BLOCK
Unit of Meas. METRIC
Temperature 70 F
Humidity 49 %

Gage ID LMI CORPORATION - SK5572 - 5
Model No.
Tol. + 0.01
Tol. - 0.01
Calibrated By ALAN BAGGETT
As Found Condition In
Calibration Results Passed
Cal. Date 9/8/2023

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 - 8.00mm Step	8.00000	8.02000	7.98000	7.99800	-0.00200	7.99800	-0.00200	METRIC
02 - 8.20mm Step	8.20000	8.22000	8.18000	8.20100	0.00100	8.20100	0.00100	METRIC
03 - 8.40mm Step	8.40000	8.42000	8.38000	8.40200	0.00200	8.40200	0.00200	METRIC
04 - 8.60mm Step	8.60000	8.62000	8.58000	8.60500	0.00500	8.60500	0.00500	METRIC
05 - 8.80mm Step	8.80000	8.82000	8.78000	8.80100	0.00100	8.80100	0.00100	METRIC
06 - 9.00mm Step	9.00000	9.02000	8.98000	9.00000	0.00000	9.00000	0.00000	METRIC
07 - 9.20mm Step	9.20000	9.22000	9.18000	9.19900	-0.00100	9.19900	-0.00100	METRIC
08 - 9.40mm Step	9.40000	9.42000	9.38000	9.40300	0.00300	9.40300	0.00300	METRIC
09 - 9.60mm Step	9.60000	9.62000	9.58000	9.60200	0.00200	9.60200	0.00200	METRIC
10 - 9.80mm Step	9.80000	9.82000	9.78000	9.80300	0.00300	9.80300	0.00300	METRIC

Findings

Ref Standard	Gage S/N	Standard Due Date	Uncert	NIST No
LMI CORPORATION - 635 005	635 005 970	12/20/2024	3E-05	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.