

# TANSON INSTRUM

### (ULTRA-HIGH PRECISION MEASUREMENT & CALIBRATION)





Discipline: Mechanical

CALIBRATION CERTIFICATE OF ELECTRONIC LEVEL

Issue Date: 08/06/2024 Calibration Date: 08/06/2024 Suggested Due Date: ----- No. of Pages: 1 of 2

Certificate No. TI/F/EL/003/24 ULR NO.: CC266024000000977F

**Tested for** 

: M/s. NATIONAL CENTRE FOR QUALITY CALIBRATION

House No. 4, Abhishree Corporate Park.

Nr. Swagat Bungalow BRTS, Iskcon-Ambli Road,

Ambli, Ahmedabad - 380058.

**Description & Identification** 

Of Instrument

Electronic Level

Range

: ± 1.999mm/m

Least Count.: ± 0.001 mm/m : BDL-011

Modal Make

: BAGSON

Serial No.

: 133

Inst. Id. No.: NCQC/M-116

**Environmental Conditions** 

: Temperature : (20±1)°C

Humidity

: (50±10)%RH

Calibration Location

: Calibration Lab 2

Method of Calibration Used

& Procedure No.

: Comparison of level (in differential mode) with

laser interferometer on a common tilting table

TI/WI/14

Reference Standard Used & Specification

Name

Make

Cert. No.

Traceability

Uncertainty

Calib. Due Date

Laser Interferometer with Angular Optics.

Renishaw

22100993/D1.02/C-103

03/11/2024

NPL

Angular - 0.01 Sec. and Linear - ±0.1µm/m

DATE OF RECEIPT:08-06-2024

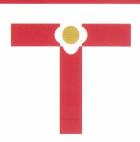
UNCERTAINTY OF MEASUREMENT IS AT COVERAGE FACTOR k = 2 FOR CONFIDENCE LEVEL OF 95% FOR A

O

NORMAL DISTRIBUTION: ±3.2µm/m

(Hitesh Tanwar)

This certificate pertains to the items calibrated at TAISON INSTRUMENT. No report should be reproduced without prior permission. The results produced in this certificate are valid under stated condition at the time of calibration.



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#### **CALIBRATION RESULTS**

#### I). 0.001mm/m

Discipline: Mechanical

Sr. No.	Nominal Value (mm/m)	Observed Value	
		(+) Right Side Measured value (mm/m)	(-) Left Side Measured value (mm/m)
1.	0.000	0.0000(set)	0.0000(set)
2. 3.	0.050	0.0498	0.0499
	0.100	0.0997	0.0996
4.	0.300	0.2984	0.2995
5.	0.500	0.4985	0.4992
6.	0.800	0.7982	0.7984
7.	1.000	0.9993	0.9981
8.	1.200	1.1986	1.1984
9.	1.400	1.3985	1.3985
10.	1.600	1.5974	1.5978
11.	1.800	1.7975	1.7977

Mean Sensitivity: 0.00096mm/m



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