

Laboratory Instrulab Aero & Allied Systems, No. 67, G.S. T. Road, Tambaram
Sanatorium, Chennai, Tamil Nadu

Accreditation Standard ISO/IEC 17025:2005

Discipline Mechanical Calibration

Issue Date 01.06.2015

Certificate Number C-0658

Valid Until 31.05.2017

Last Amended on -

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Quantity Measured / Instrument	Range/ Frequency	* Calibration Measurement Capability (\pm)	Remarks
I. DIMENSION			
1. CALIPER^{\$} (Vernier/ Dial/ Digital) L.C.: 0.01 mm ^Ø			
	0 to 300 mm	9.4 μ m	Using Slip Gauges, Long Slip Gauges & Caliper Checker
	300 mm to 600 mm	13.0 μ m	
2. HEIGHT GAUGE^{\$} (Vernier/ Dial/ Digital) L.C.: 0.01 mm ^Ø			
	0 to 300 mm	9.3 μ m	Using Slip Gauges, Long Slip Gauges & Caliper Checker
	300 mm to 600 mm	13.0 μ m	
3. EXTERNAL MICROMETER^{\$} L.C.: 0.001 mm ^Ø			
	0 to 100 mm	0.8 μ m	Using Slip Gauges and Long Slip Gauges
	100 mm to 300 mm	2.5 μ m	
4. FEELER GAUGE^{\$}			
	0.01 mm to 1 mm	2.8 μ m	Using Digital Micrometer
5. PLUNGER DIAL GAUGE^{\$}			
L.C.: 0.001 mm	0 to 10 mm	2.4 μ m	Using Electronics Dial Calibration Tester
L.C.: 0.01 mm	0 to 50 mm	6.2 μ m	

Sangeeta Kunwar
Convenor

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6.	LEVER DIAL GAUGE^{\$} L.C.: 0.001 mm ^{$\phi$}	0 to 2 mm	2.0 μ m	Using Electronics Dial Calibration Tester
7.	DIGITAL PROTRACTOR^{\$} (Clinometer)	0 to 90°	4.5' min of arc	Using Angle Gauge Blocks Grade "0" by Comparison Method
8.	DIAL THICKNESS GAUGE^{\$} L. C. : 0.001 mm ^{ϕ}	0 to 10 mm	0.8 μ m	Using Slip Gauge (Grade 0)
9.	BORE DIAL GAUGE^{\$} (Transmission Error only)	1 mm	5.2 μ m	Using Electronics Dial Calibration Tester
II. ACCOUSTICS				
1.	SOUND LEVEL METER^{\$}	1kHz 94 dB 114 dB	0.53 dB 0.66 dB	Using Sound Level Calibrator
III. PRESSURE AND VACUUM				
1.	LOW PRESSURE^{\$}- ABSOLUTE PRESSURE (Pressure Gauges, Pressure Calibrators, Manometers, Compound Gauges)	0 to 2 bar	0.0008 bar	Using Digital Pressure Indicator by Comparison Method

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2.	PNEUMATIC PRESSURE^{\$}- GAUGE PRESSURE (Pressure Gauges, Pressure Calibrators, Switches , Manometers, Compound Gauges, Pressure Transmitter/ Transducer with Indicator)	0 to 14 bar	0.007 bar	Using Digital Pressure Indicator by Comparison Method
3.	PNEUMATIC PRESSURE^{\$}- GAUGE PRESSURE (Pressure Gauges, Pressure Calibrators, Compound Gauges, Pressure Transmitter/ Transducer with Indicator)	0 to 200 bar	0.16 bar	Using Digital Pressure Indicator by Comparison Method
3.	HYDRAULIC PRESSURE^{\$}- GAUGE PRESSURE (Pressure Gauges, Pressure Calibrators, Pressure Transmitter/ Transducer with Indicator)	6.13 kg/cm ² to 60 kg/cm ² 60 kg/cm ² to 700 kg/cm ²	0.82 % of rdg 0.17 % of rdg	Using Dead Weight Tester by Comparison Method

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4.	VACUUM^{\$}- GAUGE PRESSURE (Vacuum Gauges, Vacuum Calibrators, Switches, Vacuum Transmitter with Indicator)	(-)0.98 bar to 0 bar	0.006 bar	Using Digital Pressure Indicator by Comparison Method
5.	ABSOLUTE PRESSURE TRANSMITTER^{\$} (Electrical Output)	0 to 2 bar abs	0.0002 bar	Using Documenting Process Calibrator by comparison Method
6.	PNEUMATIC PRESSURE TRANSMITTER^{\$}	0 to 14 bar	0.002 bar	Using Documenting Process Calibrator by comparison Method
7.	HYDRAULIC PRESSURE TRANSMITTER^{\$}	0 to 400 bar	0.06 bar	Using Documenting Process Calibrator by Comparison Method

* Measurement Capability is expressed as an uncertainty (\pm) at a confidence probability of 95%

^{\$}Only in Permanent Laboratory

^Φ Laboratory can also calibrate instruments/devices of coarser resolution / least count within the accredited range using same reference standard/ master equipment under the scope of accreditation.

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