

**STANDARDS**
MALAYSIA

Certificate of Accreditation

No: SMM 390

Accredited since: 1 April 2008

This is to certify that

AD TECH METROLOGY SDN. BHD.
SHAH ALAM, SELANGOR
MALAYSIA



Scan this QR Code or visit
www.jsm.gov.my/cab-directories
for the current scope of accreditation

has been granted accreditation in respect of the scope of accreditation described in the schedule, subject to the terms and conditions governing the *Skim Akreditasi Makmal Malaysia* (SMM), the Laboratory Accreditation Scheme of Malaysia.

Laboratories accredited under SMM meet the requirements of MS ISO/IEC 17025. This Malaysian Standard is identical with ISO/IEC 17025 published by the International Organization for Standardization (ISO).



(DATUK FADILAH BAHARIN)
Director General
Department of Standards Malaysia

Date of issue: 25 November 2019

NO: SAMM 390

Issue 3, 26 Nov 2024 replacement
of SAMM 390 dated , 6 Jan 2022

LABORATORY LOCATION:
(PERMANENT LABORATORY)



AD TECH METROLOGY SDN. BHD.
NO. 54, GROUND FLOOR
JALAN ANGERIK VANILLA Z 31/Z
SECTION 31, KOTA KEMUNING
40460 SHAH ALAM
SELANGOR
MALAYSIA

FIELDS OF CALIBRATION: DIMENSIONAL & PRESSURE

This laboratory has demonstrated its technical competence to operate in accordance with MS ISO/IEC 17025:2017 (ISO/IEC 17025:2017).

This laboratory’s fulfillment of the requirements of ISO/IEC 17025 means the laboratory meets both the technical competence requirements and management system requirements that are necessary for it to consistently deliver technically valid test results and calibrations. The management system requirements in ISO/IEC 17025 are written in language relevant to laboratory operations and operate generally in accordance with the principles of ISO 9001 (see Joint ISO-ILAC-IAF Communiqué dated April 2017).

*** The uncertainty covered by the CMC is expressed as the expanded uncertainty corresponding to a coverage probability of approximately 95 % and have a coverage factor of k=2 unless stated otherwise.**

SCOPE OF CALIBRATION: DIMENSIONAL

Instrument Calibrated/ Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty(±)*	Remarks
Height Gauge	0 mm to 300 mm 300 mm to 600 mm	0.013 mm 0.015 mm	Calibration procedure CP-001 with reference to JIS B 7517 : 2018 Vernier, dial and digital Height Gauge.
Dial Test Indicator	0 to 0.6 mm Resolution 0.001 mm 0 to 0.6 mm Resolution 0.002 mm 0 to 1.6 mm Resolution 0.01 mm	0.002 mm 0.003 mm 0.004 mm	Calibration procedure CP-002 with reference to JIS B 7533:2015 Dial Test Indicator (Lever Type)

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Instrument Calibrated/ Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty(\pm)*	Remarks
Caliper	0 mm to 200 mm 200 mm to 300 mm 300 mm to 600 mm	0.012 mm 0.013 mm 0.014 mm	Calibration procedure CP-003 with reference to BS EN ISO 13385-1:2019 Calipers
Dial Gauge	0 to 5 mm Resolution 0.001 mm 0 to 1 mm Resolution 0.002 mm 0 to 5 mm Resolution 0.005 mm 0 to 100 mm Resolution 0.01 mm	0.002 mm 0.003 mm 0.003 mm 0.004 mm	Calibration procedure CP-005 with reference to JIS B 7503:2017 Mechanical Dial Gauges
Digimatic Indicator (Electronics Linear Gauge)	0 mm to 100 mm Resolution 0.01 mm Resolution 0.001 mm	0.012 mm 0.003 mm	Calibration procedure CP-006 with reference to JIS B 7536:1982 Electrical comparator Clause 9 Table 5.1 & 5.2

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Instrument Calibrated/ Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty(\pm)*	Remarks
External Micrometer Resolution : 0.0001 mm	0 mm - 25 mm	0.001 mm	Calibration procedure CP-004 (Issue 2, Revision: New) with reference to ISO 3611:2023 (E) Micrometer for External Measurements
External Micrometer Resolution : 0.001 mm	0 mm - 25 mm 25 mm – 50 mm 50 mm – 75 mm 75 mm – 100 mm	0.002 mm	
	100 mm – 125 mm 125 mm – 150 mm 150 mm -175 mm	0.003 mm	
	175 mm – 200 mm 200 mm – 225 mm 225 mm – 250 mm 250 mm – 275 mm	0.004 mm	
	275 mm - 300 mm	0.005 mm	

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Instrument Calibrated/ Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty(\pm)*	Remarks
Pin Gauge/ Plain Plug Gauge (Diameter only)	0.01 mm to 50 mm	0.0021 mm	Calibration procedure CP-007 with reference to JIS B 7420:1997 Plain Limit Gauges, Table 24, item No. 1 (cylindrical plug gauge)
Standard Rod (Length only)	25 mm 50 mm 75 mm 100 mm	0.0021 mm 0.0021 mm 0.0023 mm 0.0025 mm	Calibration procedure CP-009 with reference to JIS B 7420:1997 (R2016) Plain Limit Gauges, Table 24, Item No. 3 (Rod Gauge)
Dial Thickness Gauge	0 mm to 50 mm Resolution 0.01 mm Resolution 0.001 mm	0.012 mm 0.002 mm	Calibration procedure CP-011 by comparison with gauge block in incremental mode at specified lengths.
Parallel Thread Plug Gauge	Major Diameter 1 mm to 100 mm Simple Pitch Diameter 1 mm to 100 mm	0.0021 mm 0.005 mm	Calibration procedure CP- 018 with reference to JIS B 0261 : 2004 Measuring Method for parallel screw gauge. ANSI/ASME B 1.2 – 1983 (R2017) Appendix B Metrology of 60 degree screw threads as a guide.

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Instrument Calibrated/ Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty(\pm)*	Remarks
Micro Indicator	-0.025 mm to +0.025 mm Resolution: 0.0005 mm	0.0008 mm	JIS B 7519:1994 Microindicators as a guide
	-0.050 mm to +0.050 mm Resolution: 0.001 mm Resolution: 0.002 mm	0.0009 mm 0.0009 mm	
	-1.00 mm to +1.00 mm Resolution: 0.01 mm	0.0026 mm	
Feeler Gauge	0.01 mm to 1 mm	0.003 mm	JIS B 7524:2008 Feeler gauges as a guide

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Instrument Calibrated/ Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty(\pm)*	Remarks
Pressure Measuring Device (Hydraulic Medium)	0 to 2500 bar	3.3 bar	Calibration procedure CP-012 with reference to BS EN 837- 1:1998
Pressure Measuring Device (Pneumatic Medium)	0 to 60 bar	0.2 bar	Calibration procedure CP-012 with reference to BS EN 837- 1:1998