



# PROCAL SERVICES SDN. BHD.

199801009597 (465725-K)

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14000 Bukit Mertajam, Penang, Malaysia.

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## CERTIFICATE OF CALIBRATION

**Certificate No.** : PS24125514

**Date of Issue** : 19 Sep 2024

**Issued By** : Procal Services Sdn Bhd

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**Customer** : PERCITAKAN PRACTICAL SDN BHD  
70&72,JALAN PERUSAHAAN JELUTONG SATU,  
11600 PENANG

**Instrument** : Digimatic Caliper

**Calibration Date** : 18 Sep 2024

**Manufacturer** : Mitutoyo

**Recalibration Date Specified By Customer** : 18 Sep 2025

**Model/Type** : CD-6"CS

Remark : The user should be aware that any numbers of factors may cause this instrument to drift out of calibration before the specified calibration interval has expired.

**Serial No** : 04544494

**Capacity** : 0 ~ 150mm

### Calibration Environment Condition:

**Resolution** : 0.01mm

**Temperature** : 20.0 to 20.1 °C

**Condition Upon Receiving** : No battery cover.

**Relative Humidity** : 53 to 54 %rh

**Condition Upon Returning** : The instrument has been calibrated. The results are as follows.

**Calibration Method** : Internal Calibration Procedure(s) CM D001

**Calibration Venue** : This Instrument has been calibrated at Procal Services Sdn Bhd

**Measurement Uncertainty** : The reported expanded measurement uncertainty is stated as the standard measurement uncertainty multiplied by the coverage factor k such that the coverage probability corresponds to approximately 95% and have a coverage factor of k=2 unless stated otherwise.

### Reference Standard(s) Used :

Reference Standard Name	Serial No	Certificate No	Due Date	Accreditation No	Traceability
PIN GAUGE	PL058	PS23103265	13 Feb 2025	SAMM 218	NMIM(MY)
SETTING RING SET	PL080	SM24157345	07 Aug 2026	SAMM 082	PTB(GM)
GAUGE BLOCK SET	PL151	PS24100496	03 Jan 2025	SAMM 218	NMIM(MY)
LONG GAUGE BLOCK	PL310	SM24105328	24 Jan 2025	SAMM 082	NMIM(MY)

Calibrated By:

Noor Hidayah

Approved Signatory:

S.L. Chan

This certificate is issued in accordance with the laboratory accreditation requirements of Skim Akreditasi Makmal Malaysia (SAMM) of Standards Malaysia which is a signatory to the ILAC MRA. The measurement results included in this document are traceable to Malaysia national measurement standards maintained by the National Metrology Institute of Malaysia recognised national metrology institutes. The results of calibration performed by Procal Services Sdn Bhd apply to the particular equipment at the time of its test. They do not indicate or imply that Procal Services Sdn Bhd approves, recommends or endorses the manufacturers or suppliers or users of such equipment that Procal Services Sdn Bhd in any way guarantees the equipment's performance after calibration. Test/calibrations marked 'Not SAMM Accredited' in this report/certificate are not included in the SAMM Accreditation Schedule of our laboratory. Opinions and interpretations expressed herein are outside the scope of SAMM accreditation. Copyright of this certificate is owned by the issuing laboratory and may not be reproduced other than in full except with the prior written approval of the Head of the issuing laboratory.



Customer Confirmed Received

Name: \_\_\_\_\_

Date: \_\_\_\_\_



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SAMM 218

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### Technical Information

Calibration Range: 0 to 150mm

Resolution: 0.01mm

Unit of Measurement: mm (Otherwise stated)

Readability: 0.01mm

### Calibration Results

#### *Calibration of Linear Accuracy*

Nominal Value	Measured Value Before Adjustment	Measured Value After Adjustment	Error
0	0.00	-	0.00
25	25.00	-	0.00
50	50.00	-	0.00
75	75.00	-	0.00
100	100.00	-	0.00
125	125.00	-	0.00
150	150.00	-	0.00

Note: 'Measured Value After Adjustment' is referred unless no value is indicated.

#### *Calibration of Measuring Faces*

	Feature Inspected	Error
External Measurement	Partial surface contact error (Top)	0.01
	Partial surface contact error (Bottom)	0.01
	Repeatability of partial surface contact error	0.00
	Line contact error	0.01
Internal Measurement	Error due to crossed knife-edge distance	0.01
Ext. & Int. Measurement	Scale shift error	0.01

Measurement Uncertainty :  $\pm$  0.015mm