



# PROCAL SERVICES SDN. BHD.

199801009597 (465725-K)

2, Lorong Perda Utama 12, Bandar Perda,  
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SAMM 218

## CERTIFICATE OF CALIBRATION

**Certificate No.** : PS24101690

**Date of Issue** : 22 Jan 2024

**Issued By** : Procal Services Sdn Bhd

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**Customer** : GREEN ISLAND FEED MILLS SDN BHD  
PMT 1216, LORONG PERINDUSTRIAN BUKIT MINYAK 17,  
TAMAN PERINDUSTRIAN BUKIT MINYAK,  
14100 SIMPANG AMPAT, PULAU PINANG MALAYSIA

**Instrument** : Moisture Balance

**Calibration Date** : 22 Jan 2024

**Manufacturer** : AND

**Recalibration Date** : 22 Jan 2025

**Model/Type** : MX-50

**Specified By Customer**

**Serial No** : P1046304

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.

**Capacity** : Max 51g

### Calibration Environment Condition:

**Resolution** : 0.001g

**Temperature** : 24.7 to 26.9 °C

**Condition Upon Receiving** : Good Physical Condition

**Relative Humidity** : 47 to 58 %rh

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

**Calibration Method** : Internal Calibration Procedure(s) CM F001 & CM T001

**Calibration Venue** : This Instrument has been calibrated at Company as above

**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
STD WEIGHT SET	PW014	SM23185290	30 Nov 2024	SAMM 082	NMIM(MY)
TEMPERATURE RECORDER WITH SENSOR	PL128 (PL132)	SM23112801	20 Feb 2024	SAMM 082	NMIM(MY)

Calibrated By:

Jasmizal

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 (NMIM). NMIM is a signatory to the CIPM MRA. It provides traceability of measurement to the SI system of units and/or to units of measurement realised at the NMIM and other 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.



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### Technical Information

Calibration Range: 0 to 50 g  
Unit of Measurement: g

Type of Indicator: Digital  
Resolution: 0.001g  
Readability: 0.001g

### Calibration Results

Nominal Value	Correction		Linearity Error
	Before Adjustment	After Adjustment	
0	0.000	-	
0.01	0.000	-	
10	0.000	-	
15	0.000	-	
20	0.000	-	
25	0.000	-	0.000
30	0.000	-	
35	0.000	-	
40	0.000	-	
45	0.000	-	
50	0.000	-	

Note: "Correction After Adjustment" is referred unless no value is indicated.

Eccentric Loading Test (Error)	Repeatability ( Applied Load = 25g )
-	0.000

Measurement Uncertainty : ± 0.001g

Note 1: Measured Value = Nominal Value - Correction.

Note 2: Eccentric Loading error: Difference in indicated weight when a sample weight is shifted to various positions on the weighing area of the pan.

Note 3: Repeatability - Ability of an instrument to give identical indication. Perfect repeatability is 0.

Note 4: Linearity Error = Maximum correction value - Minimum correction value

Note 5: The measurement uncertainty is applicable for linearity measurement only.



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### Technical Information

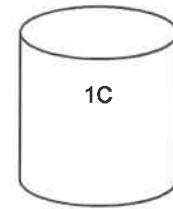
**Calibration Range:** 108°C  
**Unit of Measurement:** °C

	<u>Controller</u>	<u>Indicator</u>
Resolution:	0.1°C	0.1°C
Readability:	0.1°C	0.1°C

### Calibration Results

### Test Position

Measured Position	Measured Temperature
1	107.5
Indicated Temperature	108.0



*Remark: The above test position is requested by customer.*

*Note:- C:Center*

Set Temperature	108
Indicated Enclosure Temperature	108.0
Measured Enclosure Temperature	107.5
Spatial Variation	0.0
Temporal Variation	0.2
Overall Variation	0.2

**Uncertainty :** ± 1.0 °C