

## Certificate of Calibration

Reference No R124135826  
Date of Issue 12 Jun 2024  
Customer PRO LAB ENGINEERING SERVICES SDN BHD  
ID: 039228 No.21-G  
Jalan Bidara 8 Saujana Utama 3  
47000 Sungai Buloh  
Selangor  
Instrument Analytical Balance  
Model NL 7017 X / 009A  
Serial No 0722040130  
Control No CA4625J  
Equipment ID N/A  
Capacity/Range 520 g  
Date of Receipt 10 Jun 2024  
Date of Calibration 11 Jun 2024  
Recalibration Date 11 Jun 2025  
(Specified by Customer) The User should be aware there are many factors may cause this instrument to drift out of calibration limits prior to the stated recalibration date.  
Condition of Instrument  
Before Calibration Good Physical Condition  
After Calibration Calibrated as Requested by Customer  
Location of Calibration In-situ  
Calibration Environment (29.4 ± 0.6) °C, (42 ± 4) %rh  
Calibration Method LCP 01301

Cert. No. PSYP- 24043763

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## Reference Standard Used

Reference Instrument	Equipment ID	Control No	Certificate No	Traceable to	Due Date
Standard Weight	PH-SM-SW15	C2170G	PSYP-24018570	NMIM	11 Mar 2025

Calibrated By

Muhammad Iqbal Bin  
Mohammad Fuad

Approved Signatory

Tamilselvam A/L Chinayah

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%

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## Certificate of Calibration

Control No. CA4625J

Cert. No. PSYP-24043763

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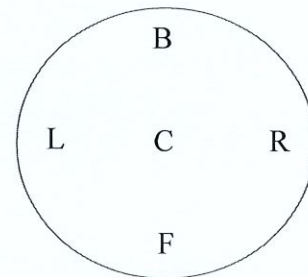
## Instrument Calibrated

Resolution	0.001	g
Readability	0.001	

Specification	
Linearity $\pm$	N/A

ACCURACY TEST		LINEARITY TEST	
REFERENCE WEIGHT	UUT READ	CORRECTION AFTER ADJUST	CORRECTION BEFORE ADJUST
0.000	0.000	0.000	0.000
1.000	1.000	0.000	0.000
10.000	10.000	0.000	0.000
20.000	20.000	0.000	0.000
50.000	50.000	0.000	0.000
100.000	100.002	-0.002	-0.006
200.000	200.010	-0.010	-0.005
300.000	300.010	-0.010	-0.001
400.000	400.008	-0.008	0.003
500.000	500.000	0.000	0.016
Measurement Uncertainty $\pm$	0.001 g	Below 220 g	k = 2
Measurement Uncertainty $\pm$	0.002 g	Below 300 g	
Measurement Uncertainty $\pm$	0.004 g	Above 300 g	

OFF CENTER TEST		REPEATABILITY TEST
POSITION	g	
CENTER -C	200.010	1 standard Deviation 0.000
FRONT -F	200.014	
BACK -B	200.008	
RIGHT -R	200.011	3 standard Deviation 0.000
LEFT -L	200.006	
Off Center Error	0.008	



Off center test position

ACCEPTABLE TO USE

Info 1 : True Reading = UUT Reading + Correction

Info 2 : UUT - Unit Under Test

Info 3 : Refer to 'Correction After Adjust' if adjusted. Otherwise refer 'Correction Before Adjust' if not adjusted. '-' mean not adjust.

Info 4 : If the correction is out of user specification, in order to meet the specification the user shall apply correction to derive true value

Info 5 : Calibration Curve can be derive by interpolation the calibration point, the interpolation point is valid through the linearity of cu.v.

Info 6 : Uncertainty - Parameter, associated with the result of measurement, that characterises the dispersion of the value that realisation of the measurand attributed to the measurand.

**Lab Manager/Approved Signatory**  
**PRO LAB ENGINEERING SERVICES SDN BHD**

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