





## **Certificate of Calibration**

Reference No

R123107865

Cert. No. PSYP- 23048392

Date of Issue

11 Jul 2023

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Customer

PRO LAB ENGINEERING SERVICES SDN BHD

No.21-g

ID: 039228

Jalan Bidara 8 saujana utama 3

47000 Sungai Buloh

Selangor

Instrument

Thermohygrometer

Model

TFA 30.5002 20220286

Serial No

CA9987J

**Control No Equipment ID** 

N/A

Capacity/Range

-10 °C to 60 °C / 10 %rh to 99 %rh

**Date of Calibration** 

10 Jul 2023

**Recalibration Date** 

Customer to Determine

(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** After Calibration

Good Physical Condition Calibrated and Serviceable

Location of Calibration

**Calibration Environment** 

Trescal Laboratory (23 ± 2) °C, (55 ± 15) %rh

Calibration Method

LCP 01106 CALIBRATION SOLUTIONS TO IMPROVE YOUR PERFORMANCE

farance Standard Head

<u>Equipment</u> <u>ID</u>	Control No	Certificate No	<u>Traceable to</u>	<u>Due Date</u>
PH-T-TH5	C0503B	PSYP- 22083186	NMIA,NMIM,SCS- SWITZERLAND	15 Nov 2023
PH-T-PT20	C9988D	PSYP- 23004858	NMIM,NMIA	25 Jan 2024
PH-T-HC2	CS6116	PSYP- 23025916	NMIA,NMIM,SCS- SWITZERLAND	10 Apr 2024
	PH-T-TH5	ID No   PH-T-TH5 C0503B   PH-T-PT20 C9988D	No   PSYP-   22083186   PSYP-   23004858   PSYP-   23004858   PSYP-   24083186   PSYP-	No

Calibrated By

Muhamad Hafiz Fakhrullah Bin Hamidi

Approved Signatory

Jag Oh Joo Kiat

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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## **Instrument Calibrated**

Resolution	0.1			1			
Readability	0.1		$^{\circ}C$	1		%rh	
Туре	Thermistor			Resistive			
Specification	±	1.0	°C	±	5	%rh	

°C	Accuracy Test					
	CORRECTION	REFERENCE	UUT	CORRECTION	SPECIFICATION	
Ä	AFTER ADJUST	READ	READ	BEFORE ADJUST	±	
Ę		15.2	15.5	-0.3	/	
A	- / /	20.0	20.4	-0.4		
ER	- ///	25.1	25.6	-0.5	1.0	
F	- // /	29.9	30.5	-0.6		
TEM	- / /	34.8	35.4	-0.6		
leası	ırement Uncertain	tv ± 0.2	°C		k = 2	

%rh	Calibration Temperature : 25 °C		Accuracy Test			
	CORRECTION	REFERENCE	UUT	CORRECTION	SPECIFICATION	
	AFTER ADJUST	READ	READ	BEFORE ADJUST	±	
Ţ	-	30.0	30	0		
믈	- 1	50.1	49	1	5	
2	_	69.9	69	1		

91

Measurement Uncertainty  $\pm$  2.2 %rh k = 2

Info 1 : True Read ~ UUT Read + 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.

90.2

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 curve.

 $Info \ 6: Uncertainty \sim Parameter, \ associated \ with \ the \ result \ of \ measurement, \ that \ characterises \ the \ dispersion \ of \ the \ value \ that \ reasonably \ be$ 

attributed to the measurand.

**ACCEPTABLE TO USE** 

Izath Azira Lab Manager Pro Lab Engineering Services Sdn Bhd

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