Excel Test Sdn. Bhd.
Reg. No.: 201701016145 (1230309-H)

ilac-MRA STANDARDS MALAYSIA ACCREDITED
SAMM 599

Certificate of Calibration

Control No. **CR12077**

Reference No.	EQ-OR/23/04	(REQ-23-0071)	**Certificate No.** **ETMC-1026033**
Date of Issue	17 February 2023		
Customer	Unit Farmasi Hospital Papar, Peti Surat 6, 89607 Papar, Sabah.		
Instrument Type	Temperature Sensor with Indicator		
Instrument Name	Digital Min/Max Thermometer		
Model	Zeal P1000		
Serial No	ETSB/A 25400		
Capacity Range	-20°C to 70°C (Int) & -50°C to 70 °C (Out)		
Calibration Date	15 February 2023		
Next Calibration Date (*Specified by Customer)	15 February 2024 *(Recalibration date requested by customer)* The user should be aware that any number of factors may cause this instrument to drift out of calibration before the specified calibration interval has expired.		
Instrument Condition			
Before Calibration	Good Physical Condition as Received		
After Calibration	Calibrated		
Location of Calibration	ETSB Calibration Laboratory		
Calibration Environment	23 ± 2 °C, 55 ± 15 %rh		
Calibration Method	WI-01101-DI1 & DI2		

This Certificate is issued under the following condition:-
The Certificate of Calibration is not a Certificate of Quality. It only applies to the sample of the specific equipment given at time of calibration. The result shall not be used to indicate or imply that they are applicable to other similar items.

Reference Standards Used:

Reference Instrument	Serial Number	Calibration Certificate Number	Calibration Due Date	Traceable to
Dostmann P 755 (Set F/Ch.1)	75519051090	ETMC-1025866	09 January 2024	NMIM
ETI LTD/CR00549 (Set 3)	D13270486	ETMC-1025742	30 December 2023	NMIM

Approved Signatory **Hooi Wai Mun**

Calibrated By **Nur Alia Alis Bt Zulkflee**

The uncertainties reported are for a confidence probability of approximately 95%

This certificate is issued in accordance with the laboratory accreditation requirement of Skim Akreditasi Makmal Malaysia (SAMM) of Standard Malaysia which is a signatory to the ILAC MRA. It provides tracebility of measurement to the SI system of units and/or to units of measurement realised at the National Institute of Malaysia (NMIM) and other recognised national metrology institutes.

Control No. CR12077

Certificate No. ETMC-1026033

Instrument Type	Temperature Sensor with Indicator
Instrument Name	Digital Min/Max Thermometer
Model	Zeal P1000
Serial No.	ETSB/A 25400

Resolution	0.1	°C
Readability	0.1	

Accuracy Test

No.	Parameter	Reference Read (°C)	UUT Read (°C)	Correction (°C)**	Measurement Uncertainty ± (°C) k = 2
1	Temperature (Internal)	0.02	0.5	-0.5	0.5
		5.01	5.3	-0.3	
		10.00	10.2	-0.2	
2	Temperature (External)	-0.04	-0.1	0.2	0.2
		5.02	5.0	0.1	
		10.02	10.0	0.0	

**** Disclaimer: Correction of indication shows result from software calculation and based on rounding principles which was verified by manual calculation**

Info 1: True Read = UUT Read + Correction
Info 2: UUT = Unit Under Test
Info 3: If the correction is out of user specification, in order to meet the specification the user shall apply correction to derive true value.
Info 4: Calibration curve can be derived by interpolation the calibration point, the interpolation point is valid through the linearity of curve.
Info 5: Uncertainty ~ Parameter, associated with the result of measurement, that characterizes the dispersion of the value that reasonably be attributed to the measurand.
Info 6: The reported expanded measurement uncertainty is stated as the standard measurement uncertainty multiplied by the coverage factor k such that the coverage probility corresponds to approximately 95%

END OF RESULTS