



## Certificate of Calibration

Certificate Number : SPR25100331-2

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Customer : Center for Safety, Health and Environment of Chulalongkorn University  
Chamchuri Building 1, Room 108, Phayathai Rd., Pathumwan,  
Bangkok 10330

Equipment Name : Heat Stress Meter

Manufacturer : Exttech

Model : HT200

Serial Number : 170703539

ID. Number : N/A

### Environmental Conditions

Ambient Temperature :  $23^{\circ}\text{C} \pm 2^{\circ}\text{C}$

Received Date : 22 Oct 2025

Relative Humidity :  $50\% \pm 15\%$

Calibration Date : 25 Oct 2025

Location of Calibration : In-Lab

Recommend Due Date : 25 Oct 2026

Calibration Procedure : SP-CPT-04-13

Date of Issue : 26 Oct 2025

### Method of Calibration

This certifies that the above instrument was calibrated in compliance with the calibration system requirement of ISO/IEC 17025:2017 in accordance with reference procedure. Standards used to perform this calibration are certified by to NIST or equivalent, National metrology institute, Natural physical constants, consensus standards. The result reported herein apply only to the calibration of the item described above as received. Our decision rule is to contact the customer if the item pass and fail calibration when the results include the uncertainties and the customer must determine if the results meets their needs.

The calibration certificate shall not be reproduced except in full, without written approval of SP Metrology System (Thailand).

Calibrated by : Ms. Apinya Pinyo

Approved by

Calibration Officer



( Mr. Pootthipong A. )

Authorized Signatory

SP-FM-04-15 rev.0



## Calibration Report

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### Reference Standards

Equipment Name	Model	Serial No.	Certificate No.	Due. Date
THERMO-HYGROMETER	5020A	A47046	TMU2500342	29 Jan 2026
Temp & Humidity Test Chamber	TEMI1500-01/SD/N/N/	S7110ZL742 1014	SPR25040010-13	20 Apr 2026

### Traceability

This certification is traceable to the International System of Unit maintained at :

NA - NA Caltechnologies Co., Ltd.

SP Metrology - SP Metrology system (Thailand) Co.Ltd.



## Result of Calibration

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Temperature Accuracy in the Measurement. (Ta)

Unit : °C

Temperature Setting	Standard Reading	UUC Reading	Error	Uncertainty ( ± )
28.0	28.012	28.0	-0.012	0.20
32.0	32.011	32.0	-0.011	0.20
36.0	36.015	36.0	-0.015	0.20

Temperature Accuracy in the Measurement. (Tg)

Unit : °C

Temperature Setting	Standard Reading	UUC Reading	Error	Uncertainty ( ± )
28.0	28.012	28.0	-0.012	0.20
32.0	32.011	32.0	-0.011	0.20
36.0	36.015	36.0	-0.015	0.20

### Note :

The result of calibration was found accurate as show on date and place of calibration only.

This Certificate is not certified for any commercial transaction.

### Measurement Uncertainty

The reported uncertainty of measurement is the expanded uncertainty obtained by multiplying the standard uncertainty with the coverage factor  $k = 2$ , providing a level of confidence approximately 95%.

- End of Certificate -