



CRYSTAL CALIBRATION SALES AND SERVICE CO., LTD.

45/48 Soi Salathammasop31, Salathammasop Rd.,
Salathammasop, Thawewatthana, Bangkok 10170 Thailand

Tel : 0-2408-8474-5 Fax : 0-2408-8477 Email : info@crystalcal.com www.crystalcal.com



CERTIFICATE OF CALIBRATION

Certificate No. : 25-1390-050

Issue Date : 5 November 2025

Work Order No. : 25/1390

Customer Name : กลุ่มงานเทคนิคการแพทย์ โรงพยาบาลพระจอมเกล้า จังหวัดเพชรบุรี
53 ถ.รถไฟ ต.คลองกระแซง
อ.เมือง จ.เพชรบุรี 76000

Date of Received : 27 October 2025

Date of Calibration : 27 October 2025

Instrument Details : Description : Digital Thermometer with sensor
Manufacturer : N/A
Model : N/A
Serial No. : N/A
ID No. : B00450
Resolution : 0.01 °C
Location : Special Lab

Calibration Method : This instrument was calibrated by comparison of indication with Standard Thermometer into calibration bath temperature controller according to calibration procedure no. CWI-T-09

Environmental Condition

Temperature : Area Monitoring between 15°C to 40°C

Humidity : Area Monitoring between 30%RH to 85%RH

Traceability of Measurement

: This certificate of calibration documents the traceability to national standard, which realize the unit of measurement according to the International system of Units (SI) and The temperature scale in use at this laboratory is The International Temperature scale of 1990.

Calibrated by : Mr. Wuttinun Yindeepot
Calibration Engineer

Approved by : 
(Mr. Anuwat Yaklermjit)
Laboratory Manager

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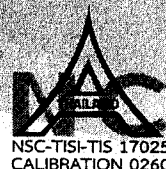




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Details of Calibration

1. Reference Standards Instrument

Instrument	Serial No. / ID No.	Certification	Due Date
Thermometer Readout	5220002	24-1569-003	5-Dec-2025
Industrial Thermometer Standard (iPRT)	1022294	24-1569-003	5-Dec-2025

2. Certificate traceable : This certificate traceable to The International System of Unit (SI unit)

3. Condition of equipment : Used

4. Calibration site : On-Site

Result of Calibration

Calibration result : Without Adjustment

Calibration point (°C)	STD. Value (°C)	UUC Reading (°C)	Correction value (°C)	Uncertainty ± (°C)
2.00	1.992	1.74	+ 0.252	0.10
4.00	3.991	3.82	+ 0.171	0.10
8.00	7.999	7.83	+ 0.169	0.10

Note : Calibrate items it good condition and this report customer request and accepted in certificate

Sheath Material : Stainless Steel

ID No. : N/A

S/N No. : N/A

Immersion Depth : 120 mm

Dimension of Sensor : 5 mm

Length : 50 mm

UUC : Unit Under Calibration.

✓

This result of calibration was found accurate as shown on date and place of calibration only.

The reported uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor $k=2$ providing a level of confidence of approximately 95%.



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Statements of conformity report

Refer to Certificate No. : 25-1390-050

Issue Date : 5 November 2025

Work Order No. : 25/1390

Detail of Equipment

Description : Digital Thermometer with sensor

Manufacturer : N/A

Serial no. : N/A

Model : N/A

ID No. of meter : B00450

Resolution : 0.01 °C

ID No. of sensor : N/A

Result of Calibration

This result of calibration : Without Adjustment

Calibration point	STD value	UUC reading	Correction	Uncertainty	Uncertainty + Absolute correc.	MPE	Evaluation
2.00	1.992	1.74	0.252	0.10	0.352	1.00	Pass
4.00	3.991	3.82	0.171	0.10	0.271	1.00	Pass
8.00	7.999	7.83	0.169	0.10	0.269	1.00	Pass

This statement judgment and decision by Laboratory guideline only

The conformity certificate documents validity following ISO/IEC Guide 98-4 : Role of measurement uncertainty in conformity assessment based on statement with guard band refer to specification tolerance limit of customer consider expanded measurement uncertainty (k=95%)

The tolerance and decision rules ;

MPE of Customer or Lab decide = Measurement uncertainty + Absolute error ; $\leq$ MPE is pass , $>$ MPE is Fail

Statements of conformity decision by :

(Mr. Anuwat Yaklermjit)

Laboratory Manager

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