CALIBRATION REPORT FOR DIGITAL THERMOMETER

WASHINGTON STATE PATROL
S/N: 091796 ID #SPXM02308
Report Number: J310939

WSP SPOKANE LAB

11/4/25

ICL CALIBRATION LABORATORIES, INC.

Cert 526.01 Calibration

ISO/IEC 17025 accredited

The specialists in ASTM and laboratory thermometers & hydrometers
Members: A2LA ASTM API NCSLI ASQ NCWM
Setting new standards in calibration excellence!

1501 SE Decker Avenue, Suite 118, Stuart, FL 34994 USA
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Fax: 772-286-8737 email: sales@iclcalibration.com
Internet: www.icllabs.com

CALIBRATION REPORT FOR DIGITAL THERMOMETER

The instrument or device identified below was examined and calibrated in ICL's metrology laboratory following the calibration procedure referenced below. This calibration fulfills the requirements of ISO/IEC 17025:2017, 'General Requirements for the Competence of Testing and Calibration Laboratories'.

CLIENT

WASHINGTON STATE PATROL
6403 WEST ROWAND ROAD
SPOKANE, WA 99224
Purchase order number: NOT AVAILABLE
Submitted by: WASHINGTON STATE PATROL
ICL internal reference (SO): 402479

DATES

Date received: 10-16-2025
Date calibrated: 10-17-2025 Date report issued: 10-17-2025

UUT (Unit Under Test) INFORMATION

Manufacturer: GUTH LABS INC.

Model No: 4300

Serial No: 091796 ID #SPXM02308

Description: 165mm X 4.05mm STEM

Manufacturer's specified temperature range: 29.5 to 38.5 °C

Calibrated range (limited calibration): 33 to 35 °C

Sensor immersion: AT LEAST 93mm RECOMMENDED

Readout resolution: 0.01 °

Engineering units: degrees Celsius (°C) or degrees Fahrenheit (°F), user selectable.

NOTE: The accuracy tolerance for this device is the manufacturer's specification. Please see the 'Tolerance' column which appears in the 'Results of Calibration' table on the next page.

RESULTS OF PHYSICAL EXAMINATION

The condition of this device was satisfactory with no visually apparent defects, unless noted below. Minor cosmetic defects are generally not noted unless they are judged to impact the usability of the device.

Technician's comments: This calibration was performed using the customer's specified tolerance of +/- 0.02C. A new 9 volt battery was installed prior to caibration. Power button requires a firm, quick push to power on or off. Exposed sensor wires were wrapped with Polyolefin tubing.

CALIBRATION PROCEDURE

ICL Procedure 04, which references relevant elements of ASTM E77, ASTM E220, ASTM E644 and ASTM E2593.

LABORATORY ENVIRONMENTAL CONDITIONS

Temperature: 23 °C +/- 5 °C, Relative humidity: between 30% and 80%

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RESULTS OF CALIBRATION

AS FOUND

Nominal Temp	Standard Rdg.	UUT Reading	Correction	Tolerance	Accept Limit*	P/F/Ind	Uncertainty
33.000 °C	33.001 °C	33.01 °C	-0.01 °C	± 0.020 °C	± 0.013 °C	Pass	± 0.016 °C
34.000 °C	34.001 °C	34.01 °C	-0.01 °C	± 0.020 °C	± 0.013 °C	Pass	± 0.016 °C
35.000 °C	35.001 °C	35.01 °C	-0.01 °C	± 0.020 °C	± 0.013 °C	Pass	± 0.016 °C

The 'As Found' values were determined to be within tolerance, and no adjustment of this device was required or undertaken.

AS LEFT

Nominal Temp	Standard Rdg.	UUT Reading	Correction	Tolerance	Accept Limit*	P/F/Ind	Uncertainty
33.000 °C	33.001 °C	33.01 °C	-0.01 °C	± 0.020 °C	± 0.013 °C	Pass	± 0.016 °C
34.000 °C	34.001 °C	34.01 °C	-0.01 °C	± 0.020 °C	± 0.013 °C	Pass	± 0.016 °C
35.000 °C	35.001 °C	35.01 °C	-0.01 °C	± 0.020 °C	± 0.013 °C	Pass	± 0.016 °C

GUARD BANDING

ISO/IEC 17025:2017 requires, in Section 7.8.6.1., that, "When a statement of conformity to a specification or standard is provided, the laboratory shall document the decision rule employed." One valid way of complying with this requirement is applying a 'guard band' to the device's tolerance. The guard band is calculated as a function of the test uncertainty ratio (TUR), the ratio of the tolerance of the UUT to the measurement uncertainty. Basically, the smaller the uncertainty is relative to the tolerance, the smaller the guard band. A TUR of 5:1 typically results in a guard band of zero, or nearly zero. A 4:1 TUR produces in a guard band very close to zero. A 3:1 TUR results in a modest guard band. And so forth. As TUR declines, the guard band becomes larger. The use of the guard band in the decision process is designed to reduce the probability of a false acceptance (PFA), or a false failure, to 2% or less. The method and equations we use for calculation of the guard band are as per Method 6 of ANSI/NCSL Z540.3

*The *Accept Limit(s) are calculated by subtracting the guard band from the tolerance. The Accept Limit is essentially a new tolerance, for this calibration only, which we use to make a declaration of Pass, Fail, or Indeterminate, as explained below:*

Pass The measured value falls within the interval described by the test point plus or minus the Accept Limit.
Fail The measured value falls outside the interval described by the test point plus or minus (the tolerance + the guard band).
Ind (Indeterminate) The measured value is indeterminate, falling in that statistical 'grey' area, too close to permit a credible determination. It is statistically and metrologically imprudent to declare that the instrument is definitively either 'in-tolerance' or 'out-of-tolerance'.

LIMITATIONS OF USE

This is a limited, or partial-range calibration, and accordingly, this thermometer may be used with confidence only within the range bracketed by the test points. The calibrated range for this thermometer is effectively from 33 to 35 °C

MEASUREMENT UNCERTAINTY

The measurement uncertainty reported is the expanded uncertainty at 2 sigma (k=2), to provide a confidence level of approximately 95%.

The uncertainty is calculated considering both Type A and Type B contributors. Type A contributors include the standard deviation of the measurement process from check standard control charts, comparator uniformity, the standard deviation of monthly Triple Point of Water calibrations of the standard, and UUT variability observed during the calibration. Type B contributors include the uncertainty of the calibration of the reference standard, stem conduction and other immersion effects, the sensitivity and accuracy of the reference standard thermometer's readout, resolution of the reference standard and resolution of the UUT.

The Type A and B contributors are combined using the root-sum-square method to obtain the standard uncertainty at 1 sigma. The standard uncertainty is then multiplied by 2 to obtain the expanded uncertainty at 2 sigma (k=2). This uncertainty calculation is consistent with the requirements of the ISO Guide to the Expression of Uncertainty in Measurement (the 'GUM') and NIST Technical Note 1297.

The expanded uncertainties (k=2) reported here do not contain estimates for (1) any effects that may be introduced by transportation of the instrument between ICL and the user's facility, (2) drift of the instrument, (3) hysteresis of the instrument, or (4) any measurement uncertainties introduced by the user.

NOTES AND SUPPLEMENTAL INFORMATION

All temperatures given in this report are those defined by the International Temperature Scale of 1990 (ITS-90).

IMPORTANT NOTE: The correct operation of digital electronic thermometers is dependent upon all components functioning properly. Correct temperature indication may be impeded by physical damage to the sensor or cable assembly, contamination of electrical contacts or components by water, oil or other contaminants, or by other, less obvious causes such as low battery level or failure of internal components. Accordingly, ICL Calibration Laboratories, Inc. represents that the calibration data provided in this report were those values observed during the performance of this calibration, however cannot be responsible for inaccurate readings which may be experienced in future uses due to conditions or circumstances which are beyond our control.

11/4/25

TRACEABILITY INFORMATION

This calibration is traceable to the International System of Units (the SI, or Système international d'unités) through NIST, via an unbroken chain of comparisons. Our primary temperature reference instruments are NIST-calibrated SPRTs (Standard Platinum Resistance Thermometers), used exclusively for the calibration of our secondary reference PRTs, which in turn are used to calibrate our clients' devices. Measurement uncertainty, which increases at each comparison in the chain, has been calculated at each step and is fully documented.

ICL maintains three NIST calibrated Rosemount model 162CE 25.5 Ohm SPRTs, for redundancy and to permit sequential rotation to NIST for calibration. As of this date, traceability from -40 °C to 200 °C (-40 °F to 392 °F) is conveyed through S/N 5206, MTE-310, which was calibrated by NIST on January 5, 2022. Traceability below -40 °C (-40 °F) and above 200 °C to 420 °C (392°F to 788 °F) is conveyed through S/N 5369, MTE-358, calibrated by NIST on May 28, 2015. Secondary reference PRTs and other working standard thermometers are calibrated at least annually against these reference SPRTs, per NIST GMP-11 recommendations, and are monitored continually using measurement assurance strategies including check standards, control charts, and documented monthly verifications at the triple point of water.

The comparators and working standards used in the performance of this calibration are indicated below, organized by test point.

Nominal Temp	Calibration method	Comparator	Serial No.	MTE No.	Manufacturer
33.000 °C	Comparison w/PRT	PP15R water bath	1B13C0895	414	PolyScience
34.000 °C	Comparison w/PRT	PP15R water bath	1B13C0895	414	PolyScience
35.000 °C	Comparison w/PRT	PP15R water bath	1B13C0895	414	PolyScience

Nominal Temp	Standard ID / Mfgr. / Model / Serial	Readout ID / Mfgr. / Model / Serial	Next Due	Position
33.000 °C	MTE-374 Fluke 5628-15 PRT 2521	MTE-396 Fluke 1595A B45115	05/01/26	Standard
33.000 °C	MTE-375 Fluke 5628-15 PRT 2603	MTE-396 Fluke 1595A B45115	05/01/26	Check Standard
34.000 °C	MTE-374 Fluke 5628-15 PRT 2521	MTE-396 Fluke 1595A B45115	05/01/26	Standard
34.000 °C	MTE-375 Fluke 5628-15 PRT 2603	MTE-396 Fluke 1595A B45115	05/01/26	Check Standard
35.000 °C	MTE-374 Fluke 5628-15 PRT 2521	MTE-396 Fluke 1595A B45115	05/01/26	Standard
35.000 °C	MTE-375 Fluke 5628-15 PRT 2603	MTE-396 Fluke 1595A B45115	05/01/26	Check Standard

TECHNICIAN: *CHRIS KELLY*

ICL CALIBRATION LABORATORIES, INC.

ICL Calibration Laboratories, Inc. is accredited to ISO/IEC 17025 & ANSI/NCSL Z-540-1 by the A2LA, Certificate #526.01, Calibration.

Approved by: ______________________

Michael C. Kelly, Technical Manager
Christina Capocci, Quality Associate
Date report issued: 10-17-2025

Reviewed by: ______________________

This report document was prepared by Lori J. Parr
Recalibration date specified by client: October 17, 2026

NIST GMP-11 (September 2014), 'Good Measurement Practice for Assignment and Adjustment of Calibration Intervals for Standards' cautions that, 'Temperature standards are dynamic with use. Shock, contamination and other factors can cause drift from accepted values'. GMP-11 recommends an initial calibration interval of 12 months for digital thermometers, standard thermistors and PRTs.

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.

This report applies only to the item calibrated. This calibration report shall not be used to claim product endorsement by the A2LA.

End of Report No. J310939

11/14/25

ICL CALIBRATION LABORATORIES, INC.
1501 Decker Ave Ste 118 Stuart, FL 34994
Federal ID No. 65-0440353

PACKING LIST

WSP SPOKANE LAB
RECEIVED 10/31/25
JOHN AXTMAN

DATE	Packing List #
10/22/2025	139106

BILL TO	SHIP TO
WASHINGTON STATE PATROL 811 EAST ROANOKE STREET SEATTLE, WA 98102	WASHINGTON STATE PATROL - IDS 6403 W. ROWAND ROAD SPOKANE, WA 99224 ATTN: TROOPER JOHN AXTMAN

Thank You for your order!

P.O. Number	Sales Order #	VIA
	402479	UPS Ground

Shipped	B/O	Catalog number	Item Description
1	0	700.3100	Calibrate customer's digital thermometer S/N 091796 at temperatures of 33, 34 & 35 °C per ICL Procedure 04 or 05 depending on the sophistication of the device. Subject thermometer to the series of calibration temperatures specified above to obtain 'As Found' readings (if device is in operable condition upon receipt). If the adjustment threshold (70% of tolerance) is exceeded at any temperature, perform an adjustment to return thermometer to in-tolerance condition, when possible. If adjustment was required, subject the thermometer to all calibration temperatures to obtain 'As Left' calibration data. Provide ISO 17025 (A2LA) accredited, NIST traceable calibration report with As Found and As Left data, with measurement uncertainty, and detailing all the particulars of the calibration.
1	0	Batt 9V	9 VOLT DURACELL BATTERY (needed for calibration)
1	0	NOTE	Used customer's requested tolerance of +/- 0.02C
1		Calibration Int - 1	Customer requests a "1" year calibration interval
1		UPS	FREIGHT AND INSURANCE VIA UPS GROUND
			SHIPPED IN THE CUSTOMER'S CASE
1	0	Thank you Crumbl Coo...	Chocolate Chip Crumbl Cookie - Thank you gift

Shipping charges additional

ICL CALIBRATION LABORATORIES, INC.

1501 Decker Ave Ste 118 Stuart, FL 34994
Federal ID No. 65-0440353

Order Acknowledgement

Date	Sales Order #
10/16/2025	402479

DO NOT PAY
THIS IS NOT A BILL

Name / Address
WASHINGTON STATE PATROL 811 EAST ROANOKE STREET SEATTLE, WA 98102

Ship To
WASHINGTON STATE PATROL - IDS 6403 W. ROWAND ROAD SPOKANE, WA 99224 ATTN: TROOPER JOHN AXTMAN

Approximate Ship Date	P.O. No.	Terms	Ship Via
10/31/2025		VISA	UPS Ground

Item	Description	Ordered	Rate	Amount
700.3100	Calibrate customer's digital thermometer S/N 091796 at temperatures of 33, 34 & 35 °C per ICL Procedure 04 or 05 depending on the sophistication of the device. Subject thermometer to the series of calibration temperatures specified above to obtain 'As Found' readings (if device is in operable condition upon receipt). If the adjustment threshold (70% of tolerance) is exceeded at any temperature, perform an adjustment to return thermometer to in-tolerance condition, when possible. If adjustment was required, subject the thermometer to all calibration temperatures to obtain 'As Left' calibration data. Provide ISO 17025 (A2LA) accredited, NIST traceable calibration report with As Found and As Left data, with measurement uncertainty, and detailing all the particulars of the calibration.	1	240.00	240.00
Batt 9V	9 VOLT DURACELL BATTERY (needed for calibration)	1	5.74	5.74

Shipping charges additional

Thank you for the opportunity to be of service!

If calibration services are being provided and a statement of compliance is made, the uncertainty of the measurement shall be taken into account. It is the policy of this laboratory to use a guard band in the decision process which is designed to reduce the probability of a false acceptance (PFA), or false failure, to 2% or less. The method and equations used for the calculation of the guard band are as per method 6 of ANSI/NCSL Z540.3

Subtotal	
Sales Tax (0.0%)	
Total	

ICL CALIBRATION LABORATORIES, INC.

Order Acknowledgement

1501 Decker Ave Ste 118 Stuart, FL 34994
Federal ID No. 65-0440353

Date	Sales Order #
10/16/2025	402479

DO NOT PAY
THIS IS NOT A BILL

Name / Address	Ship To
WASHINGTON STATE PATROL 811 EAST ROANOKE STREET SEATTLE, WA 98102	WASHINGTON STATE PATROL - IDS 6403 W. ROWAND ROAD SPOKANE, WA 99224 ATTN: TROOPER JOHN AXTMAN

Approximate Ship Date	P.O. No.	Terms	Ship Via
10/31/2025		VISA	UPS Ground

Item	Description	Ordered	Rate	Amount
Calibration Int ...	Customer requests a "1" year calibration interval		0.00	0.00
UPS	FREIGHT AND INSURANCE VIA UPS GROUND	1	0.00	0.00
	SHIPPED IN THE CUSTOMER'S CASE			

Shipping charges additional

Thank you for the opportunity to be of service!

If calibration services are being provided and a statement of compliance is made, the uncertainty of the measurement shall be taken into account. It is the policy of this laboratory to use a guard band in the decision process which is designed to reduce the probability of a false acceptance (PFA), or false failure, to 2% or less. The method and equations used for the calculation of the guard band are as per method 6 of ANSI/NCSL Z540.3

Subtotal	$245.74
Sales Tax (0.0%)	$0.00
Total	**$245.74**

View/Print Label

1. **Ensure there are no other shipping or tracking labels attached to your package.** Select the Print button on the print dialogue box that appears. Note: If your browser does not support this function, select Print from the File menu to print the label.

2. **Fold the printed label at the solid line below.** Place the label in a UPS Shipping Pouch. If you do not have a pouch, affix the folded label using clear plastic shipping tape over the entire label.

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   Customers with a scheduled Pickup
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   Customers without a scheduled Pickup
   - Schedule a Pickup on ups.com to have a UPS driver pickup all of your packages.
   - Take your package to any location of The UPS Store®, UPS Access Point(TM) location, UPS Drop Box, UPS Customer Center, Staples® or Authorized Shipping Outlet near you. To find the location nearest you, please visit the 'Locations' Quick link at ups.com.

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FOLD HERE

JOHN AXTMAN
425 923 6530
WASHINGTON STATE PATROL
6403 W ROWAND RD, PO BOX 19130
SPOKANE WA 99219

2 LBS 1 OF 1
DWT: 12,10,10

SHIP TO:
CALIBRATION
ICL CALIBRATION LABORATORIES INC
SUITE 117
1501 DECKER AVENUE
STUART FL 34994

FL 334 3-88

UPS GROUND
TRACKING #: 1Z 9X8 217 03 0972 8663

BILLING: P/P

XOL 25.10.09 NV45 41.0A 10/2025*

Thermometer Calibration Instructions

Digital Reference Thermometers will be calibrated in accordance with manufacture specifications to include:

- Readout Resolution 0.01 °C
- Accuracy Tolerance +/- 0.020°C
- Nominal Temperature Test Points 33°C, 34°C, and 35°C Please fill out the form (pages 2-

  3) following the steps below.

Step 1

Ensure:

- calibration points are listed as 33°C, 34°C, and 35°C (they are prefilled in on the form).
- the first box under OUT OF TOLERANCE ACTION is checked to indicate they are to provide "As Found" values, return the device to "In Tolerance" conditions and provide "As Left" values.
- 1 year calibration interval is checked

Step 2

Please fill in the date, ship to address, and the serial number of the thermometer. The billing address, name for the certificate, and credit card information have all been prefilled in.

Step 3

Print pages 2-3 and send it with the thermometer. The address for ICL Calibration Laboratories, Inc. is located at the bottom of page 3.

☒ If the device can be adjusted, provide "As Found" values, return the device to "In Tolerance" conditions and provide "As Left" values. I understand that there will be an additional fee associated with the adjustment and provision of the "In Tolerance", "As Left" values.

☐ Provide "As Found" values for the thermometer. DO NOT ADJUST. I will make a decision regarding continued utilization of the instrument based on the data provided in the calibration report.

RECALIBRATION INTERVAL (per the requirements of your quality system)

Please indicate the calibration interval you wish to appear on the calibration report:

☒ **1 YEAR**
☐ **NONE** (if you do not wish to have a 'Next Due' date appear.)

If the interval is not indicated by the client, we will insert a 'reasonable and prudent' calibration interval taken from NIST or other authoritative body recommendations.

Note: if we know your recalibration interval, we will contact you approximately one month before the expiration of that interval to remind you recalibration will soon be due.

ANY SPECIAL INSTRUCTIONS OR REQUESTS?

SAFETY INFORMATION

Have any of the devices submitted for calibration been exposed to radiation, bio-hazardous material or other hazardous contamination?

☒ No
☐ Yes *

* If yes, I hereby certify that these device(s) have been decontaminated by approved methods and are safe for handling.

Signature: ____________________ Title: ____________________ Date: ____________________

Print name: ____________________ Company: ______________________________

PAYMENT OPTIONS *(Please select one)*

☒ Visa
☐ MasterCard
☐ American Express

Credit Card Number: 4246044101327629 Expiration Date: 11/25

Name on Account: Impaired Driving 5 Security Code: 468

☐ UPS C.O.D.

RETURN SHIPMENT *(Please select one)*

☒ UPS Ground ☐ Collect UPS Acct. No. ____________________
☐ UPS Next Day
☐ Collect FedEx Acct. No. ____________________ ____________________
☐ UPS 2 Day

- ❑ FedEx Ground Collect
- ❑ FedEx Priority Collect
- ❑ FedEx 2 Day Collect

<u>Ship To Address:</u>

ICL CALIBRATION LABORATORIES, INC.
1501 DECKER AVENUE
SUITE 117
STUART, FLORIDA 34994
ATTENTION: CALIBRATION

Outlook

Fwd: UPS Ship Notification, Tracking Number 1Z33E8210392398696

From Benante, Shelley (WSP) <Shelley.Benante@wsp.wa.gov>
Date Thu 10/23/2025 1:24 PM
To Axtman, John (WSP) <John.Axtman@wsp.wa.gov>

Sent from my iPhone

Begin forwarded message:

From: UPS <pkginfo@ups.com>
Date: October 23, 2025 at 3:23:57 PM CDT
To: "Benante, Shelley (WSP)" <Shelley.Benante@wsp.wa.gov>
Subject: UPS Ship Notification, Tracking Number 1Z33E8210392398696

You have a package coming.

Estimated Delivery Date: Wednesday, 10/29/2025
Estimated Delivery Time: by 7:00 PM

This message was sent to you at the request of ICL Calibration Laboratories, to notify you that the shipment information below has been transmitted to UPS. The physical package may or may not have actually been tendered to UPS for shipment. To verify the actual transit status of your shipment, click on the tracking link below.

Shipment Details

From:	ICL CALIBRATION LAB INC
Tracking Number:	1Z33E8210392398696

Ship To:	ATTN: TROOPER JOHN AXTMAN WASHINGTON STATE PATROL - IDS 6403 W. ROWAND ROAD SPOKANE, WA 99224 US
UPS Service:	UPS GROUND
Number of Packages:	1
Weight:	3.0 LBS
Reference Number 1:	UPS0000000000000001
Reference Number 2:	Invoice #139106

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