Certificate of NIST Temperature Verification

Verification Performed by: Leif Boman + Victoria Schwartz

NIST-Traceable Reference Device

Reference Device Type: Digital Thermometer

Reference Device Unique ID: model: 15-077-8, 11705843
S/N: 11311344

Device Being Tested

Agency / Office: FDEP / CE-ROC

Device Unique ID: S/N: 4167340 (NIST #878708)

Cold Bath (between 0 – 10°C):

Date: 12/04/20 **Time:** 12:07

Device Being Tested: 3.9 °C

NIST Reference: 3.601 °C

Result: (Pass) / Fail

Warm Bath (between 30 – 40°C):

Date: 12/04/20 **Time:** 12:45

Device Being Tested: 38.4 °C

NIST Reference: 38.65 °C

Result: (Pass) / Fail

Comments: This is a re-certification of S/N 4167340

This Document certifies the thermometer/thermistor identified as: S/N 4167340

(**is**) / **is not** (circle one) in compliance with DEP SOP FT 1400.

DEP SOP FT 1400: Acceptance Criteria for Temp. ± 0.5°.
Record temperature reading to full instrument resolution (record all digits displayed). Do not round.

ilac-MRA A2LA ACCREDITED A2LA Certificate No. 1750.01 Calibration

Calibration complies with ISO/IEC 17025, ANSI/NCSL Z540-1, and 9001

Cert. No.: 4000-11456835

Traceable® Certificate of Calibration for Digital Thermometer

Customer :Orange County EPD Suite 200 ,3165 McCrory Place ,Orlando ,FL-32803 ,U.S.A.

Instrument Identification:

Model: 15-077-8,11705843 S/N: 111311344 Manufacturer: Control Company

Standards/Equipment:

Description	Serial Number	Due Date	NIST Traceable Reference
Thermistor Module	A27129	04 Feb 2021	1000451212
Temperature Calibration Bath	A79341		
Temperature Calibration Bath	B01375		
Temperature Probe	5394	21 Feb 2021	C0220030
Temperature Calibration Bath	B16388		
Temperature Probe	5267	21 Feb 2021	C0220028
Temperature Calibration Bath	B3A444		
Temperature Probe	5357	09 Jun 2021	C0428083
Thermistor Module	B5C344	06 Jun 2021	1000452872
Thermistor Module	B96382	19 Aug 2020	B9628006
Temperature Probe	5410	13 Sep 2020	B9801031

Certificate Information:

Technician: 420 Procedure: CAL-03 Cal Date: 04 Aug 2020 Cal Due Date: 04 Aug 2021

Test Conditions: 50.44%RH 23.97°C 1013mBar

Calibration Data:

Unit(s)	Nominal	As Found	In Tol	Nominal	As Left	In Tol	Min	Max	±U	TUR
°C	-0.003	0.0	Y	-0.003	0.0	Y	-0.3	0.3	0.058	>4:1
°C	25.002	25.0	Y	25.002	25.0	Y	24.7	25.3	0.058	>4:1
°C	60.002	60.0	Y	60.002	60.0	Y	59.7	60.3	0.058	>4:1
°C	99.999	100.0	Y	99.999	100.0	Y	99.7	100.3	0.058	>4:1

This certificate indicates Traceability to standards provided by (NIST) National Institute of Standards and Technology and/or a National Standards Laboratory.

A Test Uncertainty Ratio of at least 4:1 is maintained unless otherwise stated and is calculated using the expanded measurement uncertainty. Uncertainty evaluation includes the instrument under test and is calculated in accordance with the ISO "Guide to the Expression of Uncertainty in Measurement : (GUM). The uncertainty represents an expanded uncertainty using a coverage factor k=2 to approximate a 95% confidence level. In tolerance conditions are based on test results falling within specified limits with no reduction by the uncertainty of the measurement. The results contained herein relate only to the item calibrated. This certificate shall not be reproduced except in full, without written approval of Control Company.

Nominal=Standard's Reading; As Left=Instrument's Reading; In Tol=In Tolerance; Min/Max=Acceptance Range; ± U=Expanded Measurement Uncertainty; TUR=Test Uncertainty Ratio; Accuracy=±(Max-Min)/2; Min=As Left Nominal(Rounded) – Tolerance; Max= As Left Nominal(Rounded) + Tolerance;

Nicol Rodriguez

Nicol Rodriguez, Quality Manager

Marisa Elms

Marisa Elms, Technical Manager

Note 1:
Probe Model : 4001FS S/N: 111311344

Maintaining Accuracy:

In our opinion once calibrated your Digital Thermometer should maintain its accuracy. There is no exact way to determine how long calibration will be maintained. Digital Thermometer change little, if any at all, but can be affected by aging, temperature, shock, and contamination.

CONTROL COMPANY 12554 Galveston RD Suite B230 Webster TX USA 77598
Phone 281 482-1714 Fax 281 482-9448 sales@control3.com www.traceable.com

ACCREDITED
A2LA Certificate No. 1750.01
Calibration

Calibration complies with ISO/IEC 17025, ANSI/NCSL Z540-1, and 9001

Cert. No.: 4000-11456835

Traceable® Certificate of Calibration for Digital Thermometer

Recalibration:

For factory calibration and re-certification traceable to National Institute of Standards and Technology contact Control Company.

Issue Date : 04 Aug 2020

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