

Q.C. SERVICES, INC.

P.O. BOX 68 HARRISON, MAINE 04040 Phone: 207-583-2980 FAX: 207-583-6936

Certificate Of Calibration

Digital Thermometer with 8 Inch Stem Probe

Report No. 121814-2-16



Calibration Laboratory 2398.01

Customer: VERMONT FORENSIC LABORATORY
103 SOUTH MAIN STREET
WATERBURY, VT 05671

Date Received: 12/18/2014
Calibration Date: 12/18/2014

Make: CONTROL CO.

Customer Specified Due Date: 12/2015

Model: 14-648-12

PO#: 31320

Serial # 111814517 With 8 Inch Probe ID # NONE

Contact: REBECCA MEAD

/Range: -50 TO 150 °C X 0.1 °C

Temperature: 20.4 TO 20.6 °C / RH% 37 TO 40

Accuracy/Tolerance : SEE NOTES :

Condition Received : GOOD

Item Received : IN TOLERANCE

Item Returned IN TOLERANCE , No Adjustment possible

Calibration Location: QCS Temperature Laboratory

Equipment Location : LAB

NOTES: CALIBRATED AT CUSTOMERS SPECIFIED POINTS. / CUSTOMERS TOLERANCE +/- 0.3 °C

Nominal	Actual (STD)	Measured (UUT)	Δ (UUT)	Units	Tolerance (\pm)	Uncertainty (\pm)	Pass/Fail
0	0.001	-0.1	-0.1	°C	0.3	0.10	PASS
50	50.002	49.8	-0.2	°C	0.3	0.10	PASS

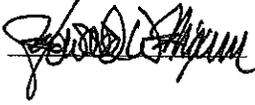
Δ ROUNDED TO THE READABILITY OF UUT.

The measurement traceability and calibration process used for conformance verification of the above instrument meets or exceeds the requirements of 17025:2005. The reported uncertainties reflect those of type B (Systematic errors associated with the standards and the procedure used), and type A (Random errors of the process). The type A and type B uncertainties were calculated in accordance with NIST technical Note 1297 using the RSS method and are reported at the coverage factor $k=2$ to approximate a confidence level of 95%. The due date as it appears on this report does not imply that the instrument will maintain its accuracy for any given length of time unless supported with further documentation (E.g. statistical etc.) which affirms such stability and is the responsibility of the end user. Many factors may contribute to instrument in-accuracy over time such as drift, environment, transportation, frequency of use etc. The reported results reflect readings obtained at the time of test only. The reported uncertainties reflect those associated with the calibration process itself and the instrument under test. If the UUT is a digital electronic measurement instrument add 0.6 of the least significant digit to the above stated uncertainty. The instrument is considered to be in-tolerance based on the observed results (Deviation or departure from nominal value) falling anywhere within its specified tolerance limits with consideration of applied uncertainty. This document shall not be reproduced except in full without the written approval of Q.C. Services, Inc.
Procedure Used: QCS 3015 ORIG (QCSTD 030508-2)

TRACEABLE STANDARDS USED:

ERTCO-EUTECHNICS 4400 S/N: 302639	Cal Due : 10/2015	
ERTCO-EUTECHNICS 4400 SN : 304526	Cal Due : 01/2015	X
HART SCI 1502 S/N 8B552 with PRT 760520	Cal Due : 08/2015	X
FLUKE 1502 S/N: A6C265 With PRT 02620	Cal Due : 07/2015	

Certified by: Howard W. Maxim & Richard C. Schieferstein Date: 12/18/2014

Approved By:  Title: Metrologist Date: 12/18/2014

QCSF2039 Rev. B 10/1/10