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Humidity

Certificate Number: 123456-2

Date of Calibration: 10-JAN-2004

SECTION 1: NAME AND ADDRESS OF CUSTOMER

End User

Henry Troemner LLC
201 Wolf Drive
Thorofare, NJ 08086

Client

Henry Troemner LLC
201 Wolf Drive
Thorofare, NJ 08086

SECTION 2: APPROVED SIGNATORY

Joseph Moran

SECTION 3: PERSON PERFORMING WORK

Katharine Ellison

SECTION 4: CERTIFICATE INFORMATION

Description of Equipment: Thermohygrometer

Order Number:

Serial Number: 841661

Date Received: 09-JAN-2004

Date of Calibration: 10-JAN-2004

Date of Issue: 10-JAN-2004

SECTION 5: ENVIRONMENTAL CONDITIONS DURING TEST

Temperature: 22.27°C

Pressure: 759.63 mm Hg

Relative Humidity: 38%

SECTION 6: PERTINENT INFORMATION

Reference standards used to perform the calibration are listed in Section 8.

The instrument calibrated for this report has been calibrated in accordance with Troemner's calibration procedure.

This calibration also meets specifications as outlined in ISO 9001, ISO/IEC 17025, ANSI/NCSL Z540-1-1994.

Calibration Certificate

201 Wolf Drive • P.O. Box 87 • Thorofare, NJ 08086-0087 • Phone:856-686-1600 • Fax:856-686-1601 • www.troemner.com • e-mail: troemner@troemner.com

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SECTION 7: HUMIDITY CALIBRATION DATA

AS FOUND:

Temperature C°	Applied Humidity RH%	Indicated Humidity RH%	Uncertainty RH%	Tolerance RH%
21.0	25	26.9	0.7	2
21.0	50	48.9	0.7	2
21.0	75	77.3	0.7	2
Standard Temp:	21.0	DUT Temp:	21.09	

AS LEFT:

Temperature C°	Applied Humidity RH%	Indicated Humidity RH%	Uncertainty RH%	Tolerance RH%
23.0	20	21.6	0.7	2
23.0	50	48.8	0.7	2
23.0	80	84.4	0.7	2
Standard Temp:	23.08	DUT Temp:	22.8	

Temperature scale in use is the International Temperature Scale of 1990 (ITS-90).

The applied Relative Humidity was calculated using the reference formula for the saturation vapor pressure in the pure phase with respect to water. (Ref: NCSL-RISP5)

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SECTION 8: STANDARD(S) USED:

Thunder Scientific	Serial Number	Cal Due Date	Procedure
2500	0207364	8/26/04	HCP-CAL
Hart Scientific			
1502	56297	11/30/04	

SECTION 9: GENERAL INFORMATION

This humidity calibration was performed in Troemner's Certification Laboratory at 201 Wolf Drive, Thorofare, NJ 08086 unless otherwise noted on page one. The standard used has been compared to reference standards that are traceable to National Institute of Standards and Technology (NIST) through Thunder Scientific. Calibrated unit was compared in the two pressure chamber of the 2500 Thunder Scientific Humidity Calibrator. Results are compared to a check standard to validate consistency of the chamber.

SECTION 10: DEFINITIONS AND TERMS

UNCERTAINTY - The reported standard uncertainty is based on a standard uncertainty multiplied by a coverage factor $k=2$, providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with NIST Technical Note 1297.

TOLERANCE - Manufacturer specifications or published standard values.

AS FOUND DATA - Calibrated value with no adjustments made to the Device Under Test.

AS LEFT DATA - Calibrated values that are determined after adjustments or repairs are made to the instrument. If no adjustments are made the AS LEFT DATA will equal the AS FOUND DATA.

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SECTION 11: ADDENDUM