



SOUTHWEST RESEARCH INSTITUTE®

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Institute Calibration Laboratory
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Calibration Laboratory
Certificate #0972-01

Certificate of Calibration

Submitted By: DIV20

Address: B57

Contact: DON BANNON

Manufacturer / Model: OMEGA / CT

Description: CHART RECORDER

Serial No: CT900107442W1

Asset No: 012263

Procedure: HUMIDITY-DEW POINT - 19 MAY 2006

Work Order: 303075305

Date Issued: Jul 9, 2007

Calibration Date: Jul 9, 2007

***Calibration Due:** Jul 9, 2008

Calibration Location: Bldg. 64

Environment: Temp. 73.0°F Hum. 40 %RH

****Data Type:** FOUND-LEFT

DivID/Location: N/A

This certificate documents traceability to the National Institute of Standards and Technology (NIST) and the International System of Units (SI). The Laboratory quality system conforms to ISO/IEC 17025, 2005, ANSI/NCSL Z540-1-1994 and relevant requirements of the ISO 9000-2000 standard. This certificate shall not be reproduced, except in full, without the written approval of the Southwest Research Institute Calibration Laboratory. This certificate shall not be used to claim product endorsement by Southwest Research Institute, American Association for Laboratory Accreditation (A2LA) or any agency of the U. S. Government. Results of this calibration relate only to the instrument described above at the time of calibration and does not imply any long term stability of the instrument.

*Determined by the customer, does not imply the instrument will remain within tolerance as any number of factors may cause an out-of-tolerance condition before this date. **Found/Left = adjustment and/or repair was not required, As Left = adjusted and/or repaired was required. The client has sole responsibility for determination of in-/out-of-tolerance or compliance/noncompliance. See Remarks or attached Measurement Report with the same Work Order number for data.

Reported uncertainty calculated in accordance with the ISO "Guide to the Expression of Uncertainty in Measurement" (GUM) and represents an expanded uncertainty with a coverage factor of k=2 to approximate a 95% confidence level.

Remarks: Calibrated Display only - Chart not calibrated.

Standards Used

| Asset No. | Serial No. | Manufacturer | Model | Description | Cal Due |
|-----------|------------|--------------------|-------|--------------------|------------|
| 006404 | 9806123 | THUNDER SCIENTIFIC | 2500 | HUMIDITY GENERATOR | May 30, 08 |

Reviewed by: () wgh () ark () jrg () blt () pwo

Metrology Technician

m:\a2la1.rpt Rev date August 15, 2005

Measurements by: Bob Trollinger

Metrology Technician

Southwest Research Institute
Calibration Laboratory
Measurement Report

| | | | | | |
|---|--------------------------|--------|-----------------------|-------------|-----------|
| Work Order: | 303075305 | Mfr: | Omega | Technician: | blt |
| Asset No: | 012263 | Model: | CT | Cal Date: | 09-Jul-07 |
| Serial No: | See Remarks | Type: | Humidity / Temp meter | | |
| Remarks: | Serial No. CT900107442W1 | | | | |
| Chart Not calibrated - Digital Display Only | | | | | |

| Function/Range | Test Point | TI Reading | Difference | +/-Limit | +/-Uncertainty | Found/Left |
|----------------|------------|------------|------------|----------|----------------|------------|
| HUMIDITY at | %RH | %RH | %RH | %RH | %RH | Result |
| | 35.02 | 35 | 0 | 4 | 1.3 | Pass |
| | 50.19 | 50 | 0 | 4 | 1.3 | Pass |
| | 64.97 | 68 | 3 | 4 | 1.3 | Pass |
| TEMPERATURE at | °C | °C | °C | °C | °C | |
| | 20.52 | 20 | -1 | 2.0 | 1.2 | Pass |
| | 25.08 | 24 | -1 | 2.0 | 1.2 | Pass |
| | 29.92 | 29 | -1 | 2.0 | 1.2 | Pass |
| END OF REPORT | | | | | | |