



# SOUTHWEST RESEARCH INSTITUTE®

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Institute Calibration Laboratory  
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Certificate #

0972-01

## Certificate of Calibration

**Submitted By:** DIV20

**Address:** B57

**Contact:** LIETAI YANG

**Manufacturer Model:** OAKTON 35629-20

**Description:** THERMOMETER

**Serial No:** 2332580201-0007

**Asset No:** 010864

**Procedure:** IR THERMOMETER, MAY/04

**Work Order:** 303064122

**Date Issued:** May 13, 2005

**Calibration Date:** May 13, 2005

**\*Calibration Due:** May 12, 2006

**Calibration Location:** Bldg. 64

**Environment:** Temp. 74.0°F Hum. 50 %RH

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

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, 1999, 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:** READINGS ARE WITHOUT PASS OR FAIL DETERMINATION PER CUSTOMER REQUEST.

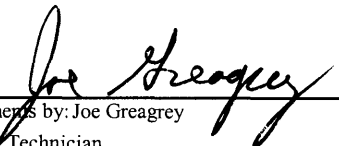
### Standards Used

Asset No.	Serial No.	Manufacturer	Model	Description	Cal Due
009414	A25788	HART SCIENTIFIC	1502A	TEMPERATURE READOUT	Aug 09, 05
010447	A38235	HART SCIENTIFIC	9132	INFRARED CALIBRATOR	
010692	632656	HART SCIENTIFIC	5618	PLATINUM RTD	Aug 09, 05

  
Approved by: Walt Hill

Manager

m:\a2la1.rpt Rev date March 6, 2005

  
Measurements by: Joe Greagrey  
Metrology Technician

Southwest Research Institute  
Calibration Laboratory  
Measurement Report

Work Order:	303064122	Mfr.	Oakton	Technician	JRG
Asset No.	010864	Model	35629-20		
Serial No.	2332580201-0007	Type.	IR THERMOMETER	Cal Date.	13-May-05
Remarks:	Reading are without PASS or FAIL determination per customer request.				

Function/Range	Hart	TI Reading	Difference	+/-Uncertainty
Set Point	°C	°C	°C	°C
50°C	50.2	50.1	-0.1	0.55
100°C	99.9	99.5	-0.4	0.55
200°C	199.5	197.3	-2.2	0.55
230°C	229.6	227.0	-2.6	0.55
Set Point	°F	°F	°F	°F
122°F	122.2	121.9	-0.3	0.96
212°F	211.7	209.7	-2.0	0.96
392°F	391.2	387.2	-4.0	0.96
446°F	445.4	441.7	-3.7	0.96
END OF REPORT				