



# SOUTHWEST RESEARCH INSTITUTE™

6220 Culebra Road, P.O. Drawer 28510  
Institute Quality Systems  
Institute Calibration Laboratory  
Phone: 210-522-5215 Fax 210-522-3692

## Certificate of Calibration

**Submitted By:** DIV20  
**Address:** B57  
**Contact:** DON BANNON  
**Manufacturer Model:** OAKTON 35629-20  
**Description:** INFRARED THERMOMETER  
**Serial No:** 2332580201-0007  
**Asset No:** 010864  
**Procedure:** IR THERMOMETERS, MAY/04

**Work Order:** 303069047  
**Date Issued:** May 15, 2006  
**Calibration Date:** May 15, 2006  
**\*\*Calibration Due:** May 15, 2007  
**Calibration Location:** Bldg. 64  
**Environment:** Temp. 73.0°F Hum. 40 %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 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	Manufacturer	Model	Description	Cal Due
009414	HART SCIENTIFIC	1502A	TEMPERATURE READOUT	Aug 02, 06
010447	HART SCIENTIFIC	9132	INFRARED CALIBRATOR	
010692	HART SCIENTIFIC	5618	PLATINUM RTD	Aug 02, 06

120  
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Q200605160022  
Instrument calibration record for Oakton  
Infrared Thermometer, Model # 35629-20,  
Serial # 2332580201-0007 (05/15/2006)

Reviewed by: blt ( ) jrg ( ) pwc (✓) wgh ( )  
Metrology Technician

Measurements by: Bob Trollinger  
Metrology Technician

Southwest Research Institute  
Calibration Laboratory  
Measurement Report

Work Order:	303069047	Mfr.	Oakton	Technician	blt
Asset No.	010864	Model	35629-20		
Serial No.	2332580201-0007	Type.	IR THERMOMETER	Cal Date.	15-May-06
Remarks:	Reading are without PASS or FAIL determination per customer request.				

Function/Range	Hart	TI Reading	Difference	+/-Uncertainty
	°C	°C	°C	°C
Set Point				
50°C	50.22	50.0	-0.215	0.55
100°C	99.91	98.4	-1.51	0.55
200°C	1999.47	197.1	-1802.4	0.55
230°C	229.67	226.7	-3.0	0.55
240°C	448.81	444.4	-4.4	0.55
END OF REPORT				

# SOUTHWEST RESEARCH INSTITUTE ®

To: Don Bannon, Div 20 , Ext 5118  
From: Institute Calibration Laboratory, Bob Trollinger  
Date: May 15, 2006  
Subject: Review of Work Request Number 303069047

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The work you requested is held pending your review. Please review the information provided and respond with your approval or further instructions for work to proceed. Return a signed copy via mail to Cal Lab Bldg 64, FAX (522-4834) or reply to this email. If you have questions or require additional information please call 522-5215.

Unit Received: May 01, 2006

Work Requested: Cal

Manufacturer: Oakton

Model: 65629-20

Description: Ir Thermometer

Serial Number: 2332580201-0007

Asset Number: 10864

User ID:

Cause of Review: READINGS ARE WITHOUT PASS OR FAIL DETERMINATION PER CUSTOMER REQUEST.

If no relpy has been received by Jun 1 2006 the unit will be returned without action.

Approved () Disapproved return unit as is ()

Date: 15 MAY 06

Instructions () \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Authorized by X Don Bannon  
Print or Type Name

DR Bannon  
Signature

Thank you for your timely response,

Walt Hill, Metrology Group Leader  
Institute calibration Laboratory