



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.

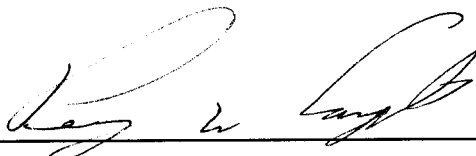
*Determined by the customer, does not imply the instrument will remain within tolerance as any number of factors may cause an out-of-tolerance condition before this date. **Found/Left = adjustment and/or repair was not required, As Left = adjusted and/or repaired was required. The client has sole responsibility 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.

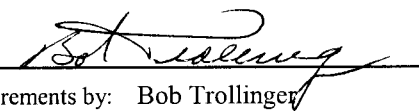
Standards Used

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



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

m:\Nona2la1.rpt Rev date 15, Aur. 05


Measurements by: Bob Trollinger
Metrology Technician

Page 1 of 1

120

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

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
Set Point	°C	°C	°C	°C
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

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

RBannon
Signature

Thank you for your timely response,

Walt Hill, Metrology Group Leader
Institute calibration Laboratory