SOUTHWEST RESEARCH INSTITUTE®

6220 Culebra Road, P.O. Drawer 28510
Institute Quality Systems
Institute Calibration Laboratory
Phone: 210-522-5215 Fax 210-522-4834

Certificate of Calibration

ACCREDITED
Calibration Laboratory
Certificate #0972-01

Submitted By: DIV20
Address: B51
Contact: DON BANNON
Manufacturer / Model: OAKTON / 35629-20
Description: INFRARED THERMOMETER
Serial No: 2332580201-0007
Asset No: 010864
Procedure: IR THERMOMETERS - 30 AUG 06

Work Order: 303081674
Date Issued: Jun 24, 2008
Calibration Date: Jun 24, 2008
***Calibration Due:** Jun 24, 2009
Calibration Location: Bldg. 64
Environment: Temp. 74.0°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: 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	Sep 06, 08
010692	632656	HART SCIENTIFIC	5618	RTD	Sep 06, 08

Reviewed by: ( ) srk (✓) mar ( ) wgh

Measurements by: Bob Trollinger
Metrology Technician

Southwest Research Institute
Calibration Laboratory
Measurement Report

Work Order:	303081674	Mfr.	Oakton	Technician	blt
Asset No.	010864	Model	35629-20		
Serial No.	35629-20	Type.	IR THERMOMETER	Cal Date.	24-Jun-08
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	50.3	50.4	0.1	0.54
100°C	100.1	99.4	-0.7	0.54
200°C	199.8	198.8	-1.0	0.54
230°C	229.9	228.7	-1.2	0.54
240°C	239.9	239.0	-0.9	0.54

END OF REPORT