



# SOUTHWEST RESEARCH INSTITUTE®

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Institute Quality Systems  
Institute Calibration Laboratory  
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Calibration Laboratory  
Certificate #0972-01

## Certificate of Calibration

**Cost Center / Customer:** DIV20 / DON BANNON

**Mail Stop:** B51

**Manufacturer/Model:** OAKTON / 35629-20

**Description:** INFRARED THERMOMETER

**Serial Number:** 2332580201-0007

**Asset Number:** 010864

**Procedure:** IR THERMOMETERS - 30 AUG 06

**Work Order:** 303095529

**Date Issued:** 15-Jul-2010

**Date Calibrated:** 15-Jul-2010

**\* Date Due :** 15-Jul-2011

**\*\* Results:** FOUND-LEFT

**Temperature:** 76.8 °F

**Humidity:** 43 %RH

**Barometer:** 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. \*\*Data type found in this certificate or attached measurement report must be interpreted as: Found-left - adjustment and/or repair was not performed, As-found - data is before unit is adjusted and/or repaired, As-left - data is after adjusted and/or repaired was performed. The customer has sole responsibility for determination of in-/out-of-tolerance or compliance/noncompliance.

Measurement uncertainty calculated in accordance with the method described in the ISO "Guide to the Expression of Uncertainty in Measurement" (GUM), for a confidence level of approximately 95 percent using a coverage factor of  $k=2$ .

**Remarks:** NO TOLERANCE ASSIGNED. SEE MEASUREMENT REPORT FOR VALUES AND UNCERTAINTIES.

### Standards Used

<u>Asset #</u>	<u>Manufacturer</u>	<u>Model</u>	<u>Description</u>	<u>Cal Date</u>	<u>Due Date</u>
009414	HART SCIENTIFIC	1502A	TEMPERATURE READOUT	14-May-2010	14-Nov-2010
015895	HART SCIENTIFIC	5618B	RTD	14-May-2010	14-Nov-2010

  
Walt Hill

Laboratory Manager

  
Carlos Mendoza

Metrology Technician

Southwest Research Institute  
Calibration Laboratory  
Measurement Report

Work Order:	303095529	Mfr.:	Oakton	Technician:	com
Asset No.:	010864	Model:	35629-20	Type Data:	Found-left
Serial No.:	See Remarks	Type:	IR Thermometer	Cal Date:	15-Jul-10
Remarks: S/N: 2332580201-0007. No tolerance assigned; customer only requests values and uncertainties.					

Function/Range	Test Point	TI Reading	Difference	+/- Uncertainty
Temperature	°C	°C	°C	°C
	50.3	50.5	0.2	0.24
	100.2	99.6	-0.6	0.24
	200.3	199.3	-1.0	0.24
	230.3	229.2	-1.1	0.24
	°F	°F	°F	°F
	122.6	122.7	0.1	0.43
	212.4	211.4	-1.0	0.43
	392.5	390.4	-2.1	0.43
	446.7	444.8	-1.9	0.43

END OF REPORT