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: OMEGA / DP465-KC-MDSSD
Description: TEMPERATURE METER
Serial No: 3130900
Asset No: 002524
Procedure: DIGITAL THERMOMETERS - 17 MAR 08

Work Order: 303083089
Date Issued: Sep 11, 2008
Calibration Date: Sep 11, 2008
***Calibration Due:** Mar 11, 2009
Calibration Location: Bldg. 64
Environment: Temp. 73.0°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: None

Standards Used

Asset No.	Serial No.	Manufacturer	Model	Description	Cal Due
006413	7085202	FLUKE	5520A/SC1100	MULTI-PRODUCT CALIBRATOR	Sep 09, 09

Reviewed by: ( ) srk (X) mar ( ) wgh

Measurements by: Bob Trollinger
Metrology Technician

Southwest Research Institute
Calibration Laboratory
Measurement Report

Work Order:	303083089	Mfr:	Omega	Technician:	blt
Asset No:	002524	Model:	DP465		
Serial No:	3130900	Type:	Temperature Meter	Cal Date:	11-Sep-08
Remarks:					

Function/Range	Test Point	TI Reading	Difference	+/-Limit	+/-Uncertainty	Found/Left
Type K	°C	°C	°C	°C	°C	Result
Ch1	0	0	0	2	1.2	Pass
	-200	-198	2	2	1.2	Pass
	320	320	0	2	1.2	Pass
	840	840	0	2	1.2	Pass
	1372	1372	0	2	1.2	Pass
Ch2	1372	1372	0	2	1.2	Pass
Ch3	1372	1372	0	2	1.2	Pass
Ch4	1372	1372	0	2	1.2	Pass
Ch5	1372	1372	0	2	1.2	Pass
Ch6	1372	1372	0	2	1.2	Pass
Ch7	1372	1372	0	2	1.2	Pass
Ch8	1372	1372	0	2	1.2	Pass
Ch9	1372	1372	0	2	1.2	Pass
Ch10	1372	1372	0	2	1.2	Pass

END OF REPORT