



# 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:** OMEGA / DP465-KC-MDSSD

**Description:** TEMPERATURE METER

**Serial Number:** 3130900

**Asset Number:** 002524

**Procedure:** DIGITAL THERMOMETERS (TC/RTD) - 12 JUN 09

**Work Order:** 303091647

**Date Issued:** 29-Dec-2009

**Date Calibrated:** 29-Dec-2009

**\* Date Due :** 29-Jun-2010

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

**Temperature:** 72.0 °F

**Humidity:** 42 %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:** None

### Standards Used

<u>Asset #</u>	<u>Manufacturer</u>	<u>Model</u>	<u>Description</u>	<u>Cal Date</u>	<u>Due Date</u>
004164	FLUKE	5500A/SC	CALIBRATOR	19-Oct-2009	19-Oct-2010

Walt Hill

Laboratory Manager

Mark Romero

Metrology Technician

Southwest Research Institute  
Calibration Laboratory  
Measurement Report

Work Order:	303091647	Mfr:	Omega	Technician:	Mark Romero
Asset No:	002524	Model:	DP465-KC-MDSSD	Type Data:	Found-left
Serial No:	3130900	Type:	Temperature Meter	Cal Date:	29-Dec-09
Remarks:					

Function/Range	Test Point	TI Reading	Difference	± Test Limit	± Uncertainty	Result	% Limit
Type K	°C	°C	°C	°C	°C		
Ch1	0	0	0	2	1.0	Pass	0%
	-200	-199	1		1.1	Pass	50%
	320	320	0		1.2	Pass	0%
	840	840	0		1.2	Pass	0%
	1372	1372	0		1.1	Pass	0%
Ch2	1372	1372	0			Pass	0%
Ch3	1372	1373	1			Pass	50%
Ch4	1372	1373	1			Pass	50%
Ch5	1372	1372	0			Pass	0%
Ch6	1372	1373	1			Pass	50%
Ch7	1372	1373	1			Pass	50%
Ch8	1372	1372	0			Pass	0%
Ch9	1372	1372	0			Pass	0%
Ch10	1372	1373	1			Pass	50%

END OF REPORT