



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: HEWLETT-PACKARD / 34908A

Description: MULTIPLEXER, 40 CHANNEL

Serial Number: MY41009204

Asset Number: 015585

Procedure: AGILENT 34970A - 21 MAR 06

Work Order: 303092674

Date Issued: 11-Feb-2010

Date Calibrated: 11-Feb-2010

*** Date Due :** 11-Feb-2011

**** Results:** FOUND-LEFT

Temperature: 71.0 °F

Humidity: 40 %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/NC SL 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: Thermocouple reference junction calibrated only.

Standards Used

<u>Asset #</u>	<u>Manufacturer</u>	<u>Model</u>	<u>Description</u>	<u>Cal Date</u>	<u>Due Date</u>
006413	FLUKE	5520A/SC1100	MULTI-PRODUCT CALIBRATOR	27-Jan-2010	27-Jan-2011

Walt Hill

Laboratory Manager

Joe Greagrey

Metrology Technician

Southwest Research Institute
 Calibration Laboratory
 Measurement Report

Work Order:	303092674	Mfr:	HP	Technician:	JRG
Asset No:	015585	Model:	34908A	Type Data:	Found-left
Serial No:	MY41009204	Type:	Multiplexer	Cal Date:	11-Feb-10

Remarks:

Function/Range	Test Point	TI Reading	Difference	± Limit	± Uncertainty	Result	% Limit
TC Ref. Junction	°C	°C	°C	°C	°C		
Type J TC	0.00	-0.20	-0.2000	1.00	0.21	Pass	20%

END OF REPORT