

SOUTHWEST RESEARCH INSTITUTE®

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



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: US37001387 Asset Number: 015560

Procedure: AGILENT 34970A - 21 MAR 06

Work Order: 303096119 **Date Issued:** 17-Aug-2010

Date Calibrated: 17-Aug-2010

* **Date Due**: 17-Aug-2011

** Results: AS-LEFT

Temperature: 72.0 °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: Thermocouple reference junction calibrated only.

Standards Used

Asset #	<u>Manufacturer</u>	Model	Description	Cal Date	Due Date
010329	FLUKE	525A	TEMPERATURE/PRESSURE CALIBRATOR	18-May-2010	18-May-2011

Walt Hill

Laboratory Manager

m:\A2LA OCT_08.rpt

Page 1 of 1

Joe Greagrey
Metrology Technician

Southwest Research Institute Calibration Laboratory Measurement Report

Work Order:	303096119	Mfr:	Agilent	Technician:	JRG
Asset No:	015560	Model:	34908A	Type Data	As-found
Serial No:	US37001387	Type:	40 Channel Multiplexer	Cal Date:	17-Aug-10
Remarks:					

Function/Range	Test Point	TI Reading	Difference	+/- Limit	+/- Uncertainty	Result	% Limit	
Thermocouple				. <u></u>				
Reference Junction	°C	°C	°C	°C	°C			
Type J TC	0.0	0.8	0.8	1.0	0.17	Pass	80%	
END OF REPORT								

Southwest Research Institute Calibration Laboratory Measurement Report

Work Order:	303096119	Mfr:	Agilent	Technician:	JRG
Asset No:	015560	Model:	34908A	Type Data	As-left
Serial No:	US37001387	Type:	40 Channel Multiplexer	Cal Date:	17-Aug-10
	to optimize.	јтуре.	40 Chaimei Multiplexei	Toal Date.	17-Aug-

Function/Range	Test Point	TI Reading	Difference	+/- Limit	+/- Uncertainty	Result	% Limit
Thermocouple	°C	°C	°C	°C	°C		
Reference Junction	C	_	C		_	_	
Type J TC	0.0	0.0	0.0	1.0	0.17	Pass	0%
		END C	OF REPORT				