



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

Submitted By: DIV20

Address: B51

Contact: DON BANNON

Manufacturer / Model: FLUKE / 2625A

Description: HYDRA DATA LOGGER

Serial No: 5832650

Asset No: 005129

Procedure: FLUKE 2620A, 2625A & 2635A - 14 APR 06

Work Order: 303079294

Date Issued: Feb 28, 2008

Calibration Date: Feb 28, 2008

***Calibration Due:** Aug 28, 2008

Calibration Location: Bldg. 64

Environment: Temp. 72.0°F Hum. 45 %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: Calibrated system with input Module Model 2620A-100, SN 005129-A

Standards Used

Asset No.	Serial No.	Manufacturer	Model	Description	Cal Due
006413	7085202	FLUKE	5520A/SC1100	MULTI-PRODUCT CALIBRATOR	Aug 11, 08

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

Measurements by: Clint Rowe
Metrology Technician

Southwest Research Institute
Calibration Laboratory
Measurement Report

Work Order:	303079294	Mfr:	FLUKE	Technician:	CER
Asset No:	005129	Model:	2625A	Cal Date:	28-Feb-08
Serial No:	5832650	Type:	DATA LOGGER		
Remarks: Calibrated system with input Module Model 2620A-100, SN 005129-A					

Function/Range	Test Point	TI Reading	Difference	+/- Limit	+/- Uncertainty	Found/Left
DCV	mVolt	mVolt	mVolt	mVolt	mVolt	Result
300 mV	0.00	-0.01	-0.01	0.02	0.012	Pass
	150.00	149.99	-0.01	0.07	0.018	Pass
	290.00	289.99	-0.01	0.11	0.026	Pass
	Volt	Volt	Volt	Volt	Volt	
3 V	2.9000	2.8999	-0.0001	0.0012	0.00018	Pass
	-2.9000	-2.9002	-0.0002	0.0012	0.00018	Pass
30 V	29.000	28.998	-0.002	0.010	0.0021	Pass
300 V	150.00	149.99	-0.01	0.06	0.015	Pass
300 V	290.00	289.98	-0.02	0.10	0.022	Pass
AC Volts	mVolts	mVolts	mVolts	mVolts	mVolts	
300 mV 1 kHz	20.00	19.99	-0.01	0.28	0.059	Pass
100 kHz	20.00	20.12	0.12	1.50	0.12	Pass
1 kHz	290.00	289.98	-0.02	0.74	0.13	Pass
100 kHz	300.00	307.70	7.70	15.50	1.0	Pass
	Volts	Volts	Volts	Volts	Volts	
3 V 1 kHz	2.9000	2.8999	-0.0001	0.0066	0.00108	Pass
30 V 1 kHz	29.000	28.998	-0.002	0.069	0.014	Pass
300 V 1 kHz	150.000	149.970	-0.030	0.460	0.14	Pass
300 V 1 kHz	290.00	289.98	-0.02	0.66	0.27	Pass
Function/Range	Ohm	Ohm	Ohm	Ohm	Ohm	
Ohm	0.00	0.02	0.02	0.09	0.012	Pass
300 Ohm	190.00	190.06	0.06	0.20	0.039	Pass
	kOhm	kOhm	kOhm	kOhm	kOhm	
	0.0000	0.0000	0.0000	0.0003	0.012	Pass
3 kOhm	1.9000	1.9000	0.0000	0.0014	0.00029	Pass
30 kOhm	19.0000	19.000	0.000	0.013	0.0029	Pass
300 kOhm	190.000	190.01	0.01	0.13	0.035	Pass
	MOhm	MOhm	MOhm	MOhm	MOhm	
3 Mohm	1.9000	1.9006	0.0006	0.0014	0.00041	Pass
Frequency	kHz	kHz	kHz	kHz	kHz	
90 kHz 2 V	10.000	10.000	0.000	0.006	0.0018	Pass

Temperature is tested with the input module
Set up 4 wire using CH 11 and CH 1 Monitor on CH 1

RTD	°C	°C	°C	°C	°C	
100 Ω	0.00	-0.02	-0.02	0.24	0.13	Pass
200 Ω	266.34	266.41	0.07	0.48	0.13	Pass
300 Ω	557.70	557.98	0.28	0.75	0.18	Pass

END OF REPORT