

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

Cost Center:DIV20 Mail Stop: B51

Customer: DON BANNON

Manufacturer/Model: FLUKE / 2625A

Description: HYDRA DATA LOGGER

Serial Number: 5832650

Asset Number: 005129

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

Work Order: 303087548 Date Issued: 14-May-2009 Date Calibrated: 14-May-2009 * Date Due: 14-May-2009 ** Results: FOUND-LEFT Temperature: 74°F Humidity: 40 %

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 to 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:**

Standards Used

Asset # Manufacturer 004164 FLUKE <u>Model</u> 5500A/SC Description CALIBRATOR <u>Cal Date</u> 16-Sep-2008

<u>Due Date</u> 16-Sep-2009

Walt Hill

Laboratory Manager

Bob Trollinger Metrology Technician

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Southwest Research Institute Calibration Laboratory Measurement Report

Work Order:	303087548	Mfr:	Fluke		Technician:	blt
Asset No:	005129		2625A			14 Mov 00
Remarks:	5832650	Туре:	Data Logger			14-May-09
Function/Range	Test Point	TI Reading	Difference	+/- Limit	+/- Uncertainty	Found/Left
DCV	mV	mV	mV	mV	mV	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
	V	V	V	V	V	
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 V	mV	mV	mV	mV	mV	
300 mV 1 kHz	20.00	19.97	-0.03	0.28	0.059	Pass
100 kHz	20.00	20.14	0.14	1.50	0.12	Pass
1 kHz	290.00	289.94	-0.06	0.74	0.13	Pass
100 kHz	300.00	308.05	8.05	15.50	1.0	Pass
	V	V	V	V	V	_
3 V 1 KHz	2.9000	2.8998	-0.0002	0.0066	0.00108	Pass
30 V 1 KHZ	29.000	28.997	-0.003	0.069	0.014	Pass
300 V 1 KHZ	150.000	149.960	-0.040	0.460	0.14	Pass
300 V 1 KHZ	290.00	289.96	-0.04	0.66	0.27	Pass
Onms	Ω Ω	Ω	Ω	Ω	Ω	Deee
300 12	0.00	0.05	0.05	0.09	0.012	Pass
	190.00	190.06	0.06	0.20	0.039	Pass
	KU2	κΩ	K12	KU	K12	D
2 40	0.0000	0.0000	0.0000	0.0003	0.012	Pass
3 K12	1.9000	1.9000	0.0000	0.0014	0.00029	Pass
30 KM	19.0000	19.001	0.001	0.013	0.0029	Pass
300 K12	190.000 MO	190.02 MO	0.02 MO	0.15	0.035	Pass
2 MO	1 0000	1 0006	0.0006		VIL2 ب) 00041	Deee
Froquency	1.9000	1.9000	0.0000	0.0014	17.0004 I	Pass
	10 000					Deee
Temperature is tested	with the input me	TU.UUU	0.000	0.000	0.0016	Pass
Set up 4 wire using CL						
			°0	°~	°0	
		-0			-U	D
	0.00	-0.20	-0.20	0.24	0.13	Pass
200 0	200.34	200.23	-0.11	0.48	0.13	Pass
500 22	557.70	557.80 END	OF REPORT	0.75	υ. Ιδ	Pass

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