CALTRONIX

Certificate of Calibration

CALTRONIX certifies that this instrument has been calibrated to published specifications using measurement standards traceable to the National Institute of Standards and Technology (NIST). CALTRONIX's calibration system meets or exceeds the requirements of MIL-STD-45662A, ANSI/NCSL Z540-1, ISO/IEC Guide 25 and ISO/IEC 17025.

CALTRONIX is accredited to ISO/IEC 17025 by ACLASS, Assured Calibration and Laboratory Accreditation Select Services, Certificate #'s AC-1182 & AC-1183.

Customer : **UNIVERSITY OF BUFFALO**
WHITE ROAD
BUFFALO, NY 14260

Description : **VOLT CALIBRATOR**
Manufacturer : **FLUKE**
Model Number : **715**
Serial Number : **9005337**
Company ID :
R.O. Number : **7K959**

Test Uncertainty Ratio:> or = **4 :1**
Procedure : **CAL-8080**
Interval : **12 Months**
Date Received : **07/19/2007**
Date Calibrated: **07/25/2007**
Date Due : **07/25/2008**
Relative Humidity **< or = 50 %**
Temperature **74 F +/- 3.0 F**

IN TOLERANCE

Uncertainity budgets have been calculated at a 95% confidence level using a coverage factor of k=2.

Calibration Facility : 100 Town Centre Drive <> Rochester, New York 14623

Asset	Manufacturer	Model No.	Description	Caled	Due
3015	KEITHLEY	2001	HIGH PRECISION MULTIMETER	06/15/2007	09/15/2007
9042	FLUKE	5520A	CALIBRATOR	10/13/2006	10/13/2007

NIST Numbers							
	Cap	Sandia 49426	Volts	Fluke JJA	Dimen	821/270003
	Ind	811/264817	Res	811/269310	Mass	822/264749
	Freq	USNO (GPS)	Temp	255156		

ACLASS

JAMES R. COYLE
Calibration Technician

Michael A. Dent 07/25/2007
Director of Quality

C A L I B R A T I O N D A T A S H E E T

CALTRONIX, Inc.
100 Town Centre Drive
Rochester, NY 14623
(585) 359-3780 FAX (585) 334-0064

R.O. Number	7K959	Calibrated By	30	Date Calibrated	07/25/07
Manufacturer	FLUKE		Company	UNIVERSITY OF BUFFALO	
Model	715		Serial	9005337	
Description	VOLT CALIBRATOR		ID No.		

Function/Parameter Tested	Lo Limit	As Found	Hi Limit	As Left
DC VOLTAGE MEASURE				
0.0000mV	-0.02	0.00	0.02	0.00
50.0000mV	49.98	50.01	50.02	50.01
150.0000mV	149.96	150.04	150.04	150.04
0.0000V	-0.002	0.000	0.002	0.000
10.0000V	9.997	10.001	10.003	10.001
20.0000V	19.996	20.003	20.004	20.003
DC CURRENT MEASURE				
4.0000mA	3.998	4.001	4.002	4.001
12.0000mA	11.996	12.003	12.004	12.003
24.0000mA	23.993	24.006	24.007	24.006
DC VOLTAGE SOURCE				
0.00mV	-0.02	0.01	0.02	0.01
50.00mV	49.98	49.99	50.02	49.99
150.00mV	149.96	149.96	150.04	149.96
0.000V	-0.002	.001	0.002	.001
5.000V	4.998	5.000	5.002	5.000
15.000V	14.997	14.998	15.003	14.998
DC CURRENT SOURCE				
4.000mA	3.9972	3.9974	4.0028	3.9974
12.000mA	11.9956	11.9966	12.0044	11.9966
24.000mA	23.9932	23.9944	24.0068	23.9944