Calibration of: 500# L.C. **Serial No:** 418053

Standard Used: Test Frame 18 1K P L.C. Serial No: 6047 Certification Date: 6-1-97

Amplifier: MM. 2120 A Serial No. 106758 Location: A

Voltmeter: H-P 3465 A Serial No: 1621A09968 Certification Date: 4-11-97

Frame No. 18 By: DWH Tens., (Comp.) or Other : 5 V EXITATION 100K cal

Date: 7 AUG 97 Temp: 74 Humidity: 45% Cal. Volts A: 3.891 B:

+ voltage

	load	Run # 1	Run # 2	Run # 3	Avg.	Error
	0	0	0			
	-50	1.001	1.001	.999	1.000	
	-100	2.002	1.992	1.996	1.997	
	-150	3.005	3.008	2.997	3.004	
	-200	4.002	4.003	4.003	4.003	
	-250	5.006	5.001	5.000	5.002	
	-300	6.003	6.004	6.001	6.004	
	-350	7.008	6.995	6.997	7.00	
	-400	8.005	8.007	8.004	8.005	
	-450	9.011	9.004	9.005	9.007	
	-500	10.009	10.010	10.008	10.009	

Y intercept : _____ R fit of slope: _____ Standard Dev of Error σ _____

Slope α : 49.95488 × Cal Volts(a) 3.891 = 194.37 ÷ 50 (3.887)

<--- (Calibration Constants)

× Cal Volts(b) _____ = _____

Poly. Fit Coeff. a_0 : _____ a_1 : _____ a_2 : _____ a_3 : _____ $y = a_0 + a_1(\chi) + a_2(\chi)^2 + a_3(\chi)^3$

500 Lb Compression Load Cell S/N 418053
2120A Amp Slot A 7 Aug 97

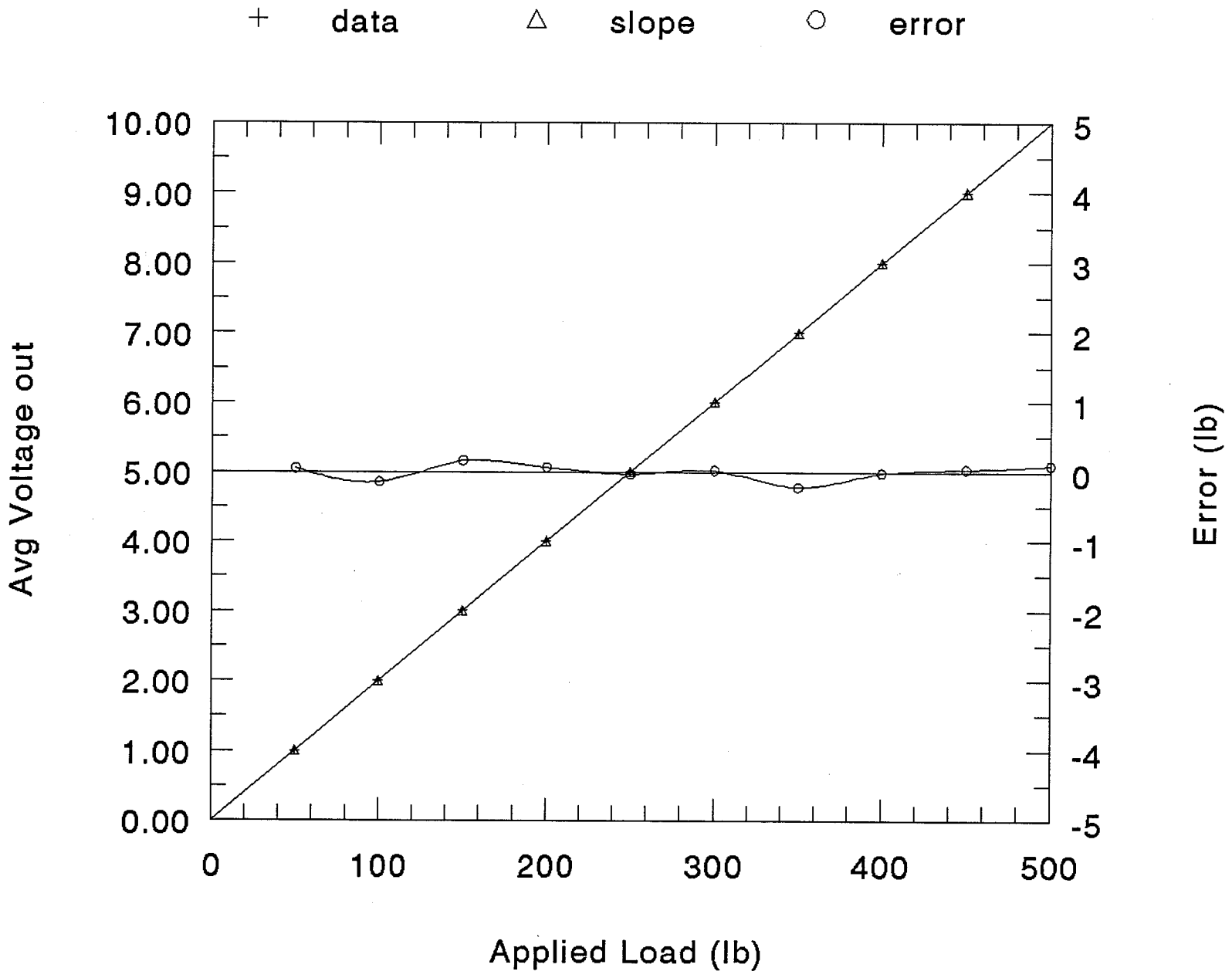
Per ASTM E-4

Y-intercept = -1.867636E-03
Slope = 2.001806E-02 y/x 1 / Slope = 49.95488 x/y
Corr. Coef. = .9999998

Mean of error = 9.918213E-06
Median of Error = 2.967834E-02
Min of Error = -.2225342
Max of Error = .1577606
Standard Deviation of Error = .1124755

Label for X is --> Load
Label for Y is --> Avg Volts Out

Nth	X	Y	X-Calculated	Error	% Error
1	+50.0000	+1.0000	+50.0482	+0.0482	+0.09636
2	+100.0000	+1.9970	+99.8532	-0.1468	-0.14680
3	+150.0000	+3.0040	+150.1578	+0.1578	+0.10517
4	+200.0000	+4.0030	+200.0627	+0.0627	+0.03134
5	+250.0000	+5.0020	+249.9676	-0.0324	-0.01296
6	+300.0000	+6.0040	+300.0224	+0.0224	+0.00748
7	+350.0000	+7.0000	+349.7775	-0.2225	-0.06358
8	+400.0000	+8.0050	+399.9821	-0.0179	-0.00446
9	+450.0000	+9.0070	+450.0369	+0.0369	+0.00821
10	+500.0000	+10.0090	+500.0917	+0.0917	+0.01834

500 Lb Compresion Load Cell # 418053

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