

Certificate Number: **0000000000**

Single Channel Item

CALIBRATION DATA

Test Temp: 74 °F (23 °C)	Relative Humidity: 42 %	Excitation: 4.99 Vdc
Input Resistance: 351 Ω	Output Resistance: 352 Ω	Zero Balance: 0.0103 mV/V

Tension

Load (lb)	Output (mV/V)	Non-Linear Error (% R.O.)
0	0.0000	0.000
5	0.4488	-0.019
10	0.8977	-0.033
15	1.3469	-0.034
20	1.7961	-0.035
25	2.2461	0.000
0	0.0002	

Standard Deviation: 0.00015354 mV/V
ASTM Uncertainty: 0.00030708 mV/V

* Error and Uncertainty were calculated using Straight Line Method in accordance with ASTM E 74, K = 2.0 or minimum equipment system uncertainty, whichever larger.

Best-Fitted, 3rd Degree Polynomial Equations (Load – x, Output – y):	
$y = A_0 + A_1 \cdot x^1 + A_2 \cdot x^2 + A_3 \cdot x^3$	$x = B_0 + B_1 \cdot y^1 + B_2 \cdot y^2 + B_3 \cdot y^3$
A0 = -0.000009787	B0 = 0.00010856
A1 = 0.08976751	B1 = 11.1399
A2 = -0.000001377	B2 = 0.001867013
A3 = 1.75919E-07	B3 = -0.002691193

Best fitted equation was calculated using the Method of Least Squares.

SHUNT CALIBRATION

Direction	Shunt Value (KΩ)	Shunt Connection	Output Value (mV/V)	Equivalent Load (lb)
Tension	60.4	(-Exc) & (-S)	1.4530	16