

**CALIBRATION CERTIFICATE NUMBER 5005258**

**MODEL PURCHASING DATA**

Customer Name: XYZ LTD.  
 Model: 48004V(5-3)-N-F-Z  
 Serial: 48004V53100099  
 Factory Ref#: 30223-V  
 P.O.#: PO-1111

Assessed Condition: New

**CALIBRATION ELECTRONICS DATA**

Model Number: 731 (In-House)  
 Serial Number: 113  
 Amp Model: DCVA (In-House)  
 Cable: 224-7696 20 ft. (In-House)  
 Cal Resistor: N/A Kohm

**CLOCKWISE DATA**

Applied lbf-in	Output Volts	
	Incr.	decr.
0.0	0.0000	0.0000
399.8	0.3990	0.4006
799.5	0.7988	0.8008
1599.0	1.5987	1.6010
2398.6	2.3986	2.4013
3198.1	3.1986	3.2004
3997.6	3.9983	3.9998
4797.1	4.7980	4.7982
4997.0	4.9977	

**COUNTERCLOCKWISE DATA**

Applied lbf-in	Output Volts	
	Incr.	decr.
0.0	0.0000	0.0000
399.7	-0.3996	-0.4014
799.5	-0.7996	-0.8016
1599.0	-1.6000	-1.6020
2398.5	-2.4001	-2.4025
3198.0	-3.2003	-3.2025
3997.5	-4.0004	-4.0018
4797.0	-4.8000	-4.8008
4996.9	-5.0000	

This calibration was done in accordance to S. Himmelstein procedure 223-1059 rev. F.

**Equivalent Shunt Calibration**

CLOCKWISE DATA 4029.0 lbf-in  
 COUNTERCLOCKWISE DATA lbf-in

This transducer meets specification A5 as defined in 223-1208 rev. D.

The expanded uncertainty for the calibration data in this report is +/-0.030% of full scale.

Expanded uncertainty calculated by multiplying the combined standard uncertainty by a coverage factor, k, of 2. Thus the confidence level for the uncertainty is 95%. The combined standard uncertainty was determined, per NIST Technical Note 1297, as described in document 223-1207 rev D. If system uses equipment other than that shown on this report, said equipment must be considered in computing uncertainty.

**NIST TRACEABLE STANDARDS**

Arm: M08 V std: E109 Wts.: W05W06W07 Calibration reports on file.



NVLAP LAB CODE 200487-0  
 Complies with ISO-17025

Calibrated at S. Himmelstein and Co. metrology lab.  
 2490 Pembroke Ave. Hoffman Estates, IL  
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**OTHER DATA**

Temp °F: 71.5 DAQ: DQ3  
 Fixture: F18  
 Cal Date: 10/6/2010  
 Calibration Technician

*MR* MR

Report V3.1 rev NC

Approved by: Tom Marek  
 Tom Marek/ Cal Lab Supervisor

**10/ 19/ 10**  
 month / day / year