Certificate of Calibration

Transducer Model: PDI Transducer

Serial Number: E759

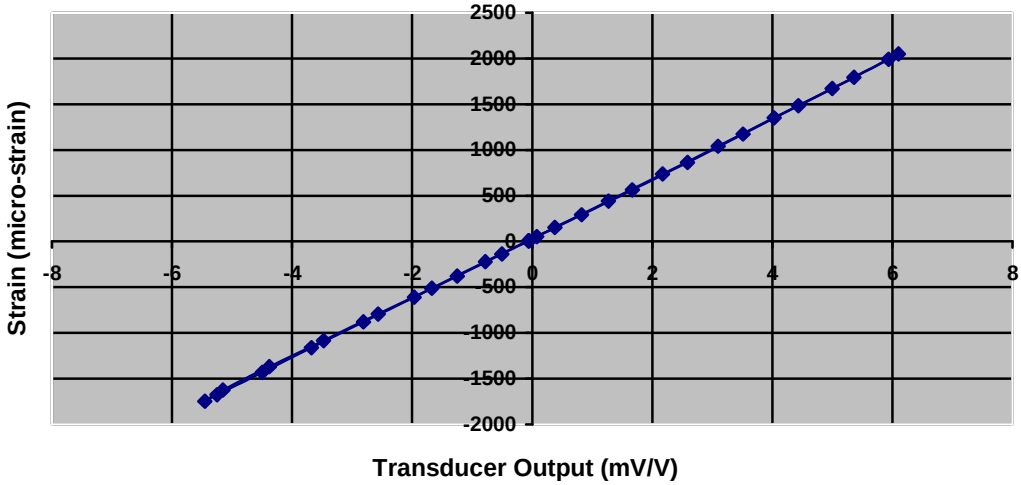
PDI Gage Factor: 93.9 με/V

General Gage Factor: 326.0 με/mV/V_{ext}
Initial Offset Voltage: 0.048 mV/V_{ext}

Table 1 – Representative Calibration Data

Applied Strain (με)	Transducer Output (mV/V_{ext})	Applied Strain (με)	Transducer Output (mV/V_{ext})
6	-0.051	292	0.822
-138	-0.506	565	1.669
-381	-1.251	863	2.587
-610	-1.963	1172	3.510
-881	-2.808	1482	4.434
-1162	-3.675	1793	5.357
-1431	-4.498	2046	6.102
-1677	-5.248	1988	5.935
-1747	-5.451	1668	4.993
-1625	-5.151	1349	4.032
-1370	-4.376	1041	3.098
-1085	-3.474	736	2.170
-794	-2.566	440	1.268
-511	-1.676	151	0.374
-223	-0.783	5	-0.058
53	0.075	6	-0.058

Calibration Curve



Mean Linear Correlation Coefficient (LCC): 9.999521E-1

LCC Standard Deviation: 8.815411E-8

Calibrated By: MJ

Signature:_____

Date/Time: 2/10/2016 1:35 PM

Temperature (°C): 24.9

Specifications

PDI Automated Strain Transducer Calibration System (PDI-ASTCS)

ASTCS Calibration Information	
ASTCS Serial Number:	ASTCS-0005
ASTCS Software Version:	2.310
ASTCS Independent Verification Date:	11/5/2014 11:54 AM
Strain Transducer Gage Length:	3.0 inches (76.2 mm)
Applied Full Scale Displacement Range:	±7.500000E-3 inches
Method for Applying Displacement:	Precision Step Motor Coupled to Linear Stage
Excitation Voltage for Calibration:	2.5 VDC
Displacement Measurements:	Dual Precision AC LVDT's, Output Averaged
Displacement Certification:	NIST 274437-07
Linearity Verification Technique:	Linear Correlation Coefficient > 0.9999
Repeatability Verification Technique:	Standard Deviation < 0.5 % (of mean)
ASTCS System Check	
Reference Strain Transducer:	4367T
Reference General Gage Factor:	293.000 με/mV/V
LVDT #1 Sensitivity (inches/volt):	7.916500E-3
LVDT #2 Sensitivity (inches/volt):	8.042000E-3
Date/Time of Last System Check:	2/10/2016 8:52 AM
PDI Strain Transducer Connections	
Black:	+ Excitation
Green:	- Excitation
Red:	+ Signal
White:	- Signal
Grey:/BARE	Shield

NIST Reference:

PDI certifies the above PDI-ASTCS instrument meets or exceeds published specifications and has been verified using standards and instruments whose accuracies are traceable to the National Institute of Standards and Technology (NIST), an accepted value of a natural physical constant or a ratio calibration technique. The calibration of this instrument was performed in accordance with the PDI Quality Assurance program. Measurements and information provided on this report are valid at the time of calibration only.