Certificate of Calibration

Transducer Model: PDI Transducer

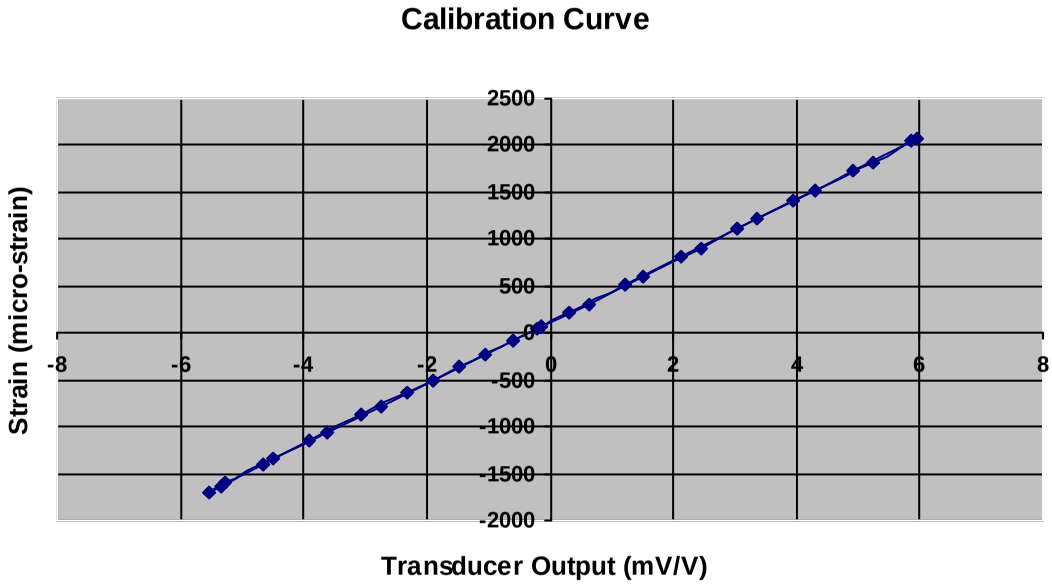
Serial Number: K457

PDI Gage Factor: 94.1 με/V

General Gage Factor: 326.7 με/mV/V_{ext}
Initial Offset Voltage: -0.100 mV/V_{ext}

Table 1 – Representative Calibration Data

Applied Strain (με)	Transducer Output (mV/V_{ext})	Applied Strain (με)	Transducer Output (mV/V_{ext})
74	-0.138	309	0.621
-77	-0.604	600	1.520
-361	-1.489	905	2.449
-627	-2.309	1212	3.368
-877	-3.080	1519	4.292
-1146	-3.904	1828	5.227
-1401	-4.665	2083	5.969
-1629	-5.347	2047	5.853
-1695	-5.527	1731	4.919
-1595	-5.260	1418	3.959
-1340	-4.481	1113	3.037
-1063	-3.623	813	2.121
-781	-2.757	518	1.221
-499	-1.891	226	0.314
-226	-1.041	74	-0.137
39	-0.217	73	-0.136



Mean Linear Correlation Coefficient (LCC): 9.999798E-1

LCC Standard Deviation: 1.593992E-6

Calibrated By: Erik Scerbak

Signature:_____

Date/Time: 7/21/2016 12:38 PM

Temperature (°C): 27.1

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:	7/21/2016 10:51 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.