



Certificate of Calibration

Transducer Model: PDI Transducer

Pile Dynamics, Inc.

Serial Number: E736

PDI Gage Factor: 96.3 me/V

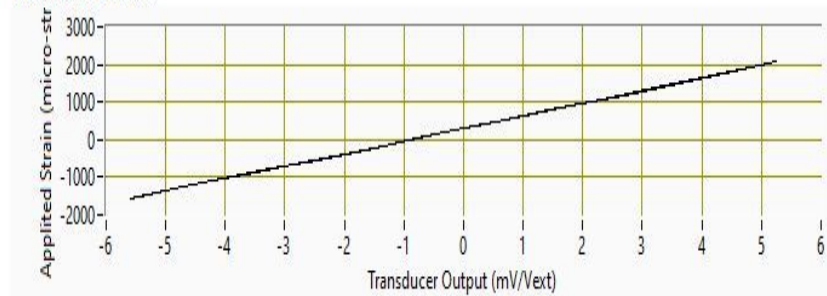
General Gage Factor: 334.4 me/mV_{ext.}

Initial Offset Voltage: -0.200 mV/V_{ext.}

Table 1: Representative Calibration Data

Applied Strain (micro-strain)	Transducer Output (mV/V _{ext.})	Applied Strain (micro-strain)	Transducer Output (mV/V _{ext.})
42.727	-0.752	286.581	0.005
-105.602	-1.197	572.508	0.873
-371.809	-1.993	879.530	1.792
-608.336	-2.706	1191.130	2.709
-868.840	-3.482	1503.710	3.618
-1109.454	-4.210	1821.411	4.531
-1327.462	-4.866	2074.887	5.248
-1514.533	-5.425	2029.311	5.119
-1568.841	-5.588	1705.166	4.174
-1526.404	-5.478	1383.206	3.223
-1317.050	-4.866	1077.520	2.321
-1056.653	-4.060	777.476	1.428
-789.407	-3.244	483.701	0.548
-524.700	-2.445	191.300	-0.329
-258.697	-1.635	43.785	-0.762
19.253	-0.802	42.562	-0.763

Calibration Curve



Mean Linear Correlation Coefficient (LCC): 0.999971

LCC Standard Deviation: 3.286904E-6

Calibrated By: DJC

Signature: _____

Date and Time: 6/26/2020 12:40 PM

Temperature (Degrees C): 25.1

Specifications

PDI Automated Strain Transducer Calibration System (PDI - ASTCS)

ASTCS Serial Number:	PDI CAL 2015-02
ASTCS Software Version Number:	3.001
ASTCS Independant Verification Date:	9/22/2015 1:48 PM
Transducer Gage Length:	3 inches (76.2 mm)
Full Scale Displacement Range:	+/- 0.0075 (inches)
Method for Applying Displacement:	Precision Stepper Motor Connected to Linear Stage
Excitation Voltage for Calibration:	2.5 VDC
Displacement Measurements:	Dual Precision LVDTs, Output Averaged
Displacement Certification:	NIST 274437-07
Linearity Verification Technique:	Linear Correlation Coefficient < 0.9996
Repeatability Verification Technique	Standard Deviation < 0.5% of mean

ASTCS System Check

Reference Strain Transducer:	B5580
Reference General Gage Factor:	529.70 micro-strain/mV/V
LVDT #1 Sensitivity (inches/volt):	0.0079
LVDT #2 Sensitivity (inches/volt):	0.0081
System Temperature Status	Passed
Date/Time of Last System Check	9/22/2015 1:48 PM

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.