



Certificate of Calibration

Transducer Model: PDI Transducer

Pile Dynamics, Inc.

Serial Number: **K453**

PDI Gage Factor: 93.6 me/V

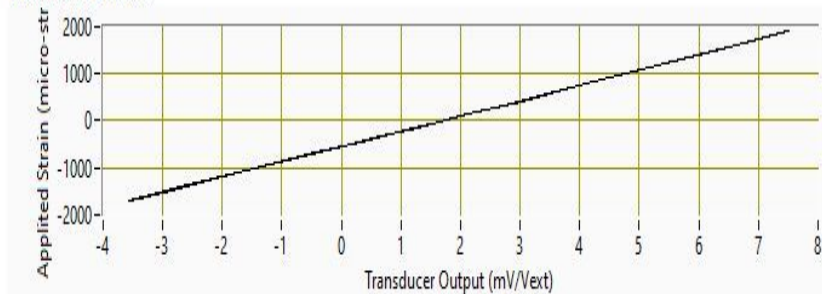
General Gage Factor: 324.8 me/mV_{ext.}

Initial Offset Voltage: 0.609 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.})
-16.264	1.654	131.504	2.124
-156.546	1.208	429.245	3.043
-436.882	0.337	731.870	3.976
-685.169	-0.440	1041.412	4.904
-935.407	-1.211	1350.403	5.833
-1187.519	-1.991	1660.542	6.761
-1426.637	-2.723	1913.446	7.508
-1647.110	-3.396	1857.186	7.352
-1708.542	-3.569	1533.206	6.394
-1617.408	-3.328	1217.364	5.435
-1373.196	-2.581	911.788	4.503
-1103.757	-1.736	611.580	3.586
-836.354	-0.907	325.677	2.702
-578.746	-0.103	92.205	1.979
-335.197	0.657	-17.354	1.653
-135.917	1.288	-16.816	1.655

Calibration Curve



Mean Linear Correlation Coefficient (LCC): 0.999968

LCC Standard Deviation: 6.963355E-7

Calibrated By: DJC

Signature: _____

Date and Time: 4/6/2021 9:43 AM

Temperature (Degrees C): 25.9

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.