



Certificate of Calibration

Transducer Model: PDI Transducer

Pile Dynamics, Inc.

Serial Number: T978

PDI Gage Factor: 143.7 me/V

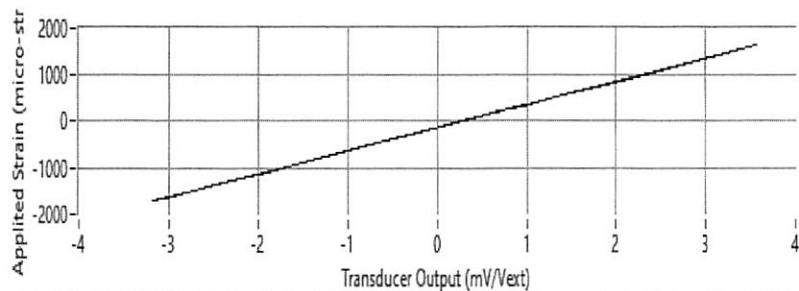
General Gage Factor: 498.8 me/mV/V_{ext}

Initial Offset Voltage: 0.281 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})
147.891	0.546	220.617	0.675
20.645	0.257	341.611	0.957
-221.736	-0.203	528.163	1.310
-502.828	-0.771	809.850	1.884
-790.294	-1.350	1105.033	2.488
-1076.063	-1.895	1404.026	3.063
-1352.424	-2.490	1698.144	3.559
-1636.545	-3.022	1571.192	3.386
-1719.226	-3.188	1266.694	2.791
-1530.690	-2.807	968.162	2.167
-1241.570	-2.215	674.216	1.572
-951.995	-1.675	407.654	1.083
-665.144	-1.065	280.933	0.792
-381.599	-0.510	206.810	0.662
-108.509	0.041	139.217	0.524
100.355	0.470	140.645	0.511

Calibration Curve



Mean Linear Correlation Coefficient (LCC): 0.999955

Calibrated By: Vanna Ouk

LCC Standard Deviation: 7.929592E-8

Signature: *Vanna Ouk*

Temperature (Degrees C): 26.3

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Pile Dynamics, Inc.

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ORIGINAL

Specifications

PDI Automated Strain Transducer Calibration System (PDI - ASTCS)

ASTCS Serial Number:	PDI CAL 2015-02-
ASTCS Software Version Number:	3.001
ASTCS Independent Verification Date:	12/14/2018 10:34 AM
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):	0.0056
LVDT #2 Sensitivity (inches/volt):	0.0055
System Temperature Status	Passed
Date/Time of Last System Check	12/14/2018 10:34 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.