Accelerometer Calibration Certificate
Pile Dynamics, Inc.

Calibrated by Pile Dynamics, Inc.
Calibration performed on

JUL 1 8 2024

Serial No:	80162	**Temperature:**	24.2 °C
Model:	PE	**Humidity:**	40%
Calibrated on:	Channel 3 on 8G 5161 LE		

Ref Acc 1:	78268! 986 g's/volt	**Cal on:**	11Jan2024
Ref Acc 2:	78270! 971 g's/volt	**Cal on:**	11Jan2024

Reference accelerometer calibrations are traceable to the United States National Institute of Standards and Technology (NIST).

PDA CALIBRATION FACTOR

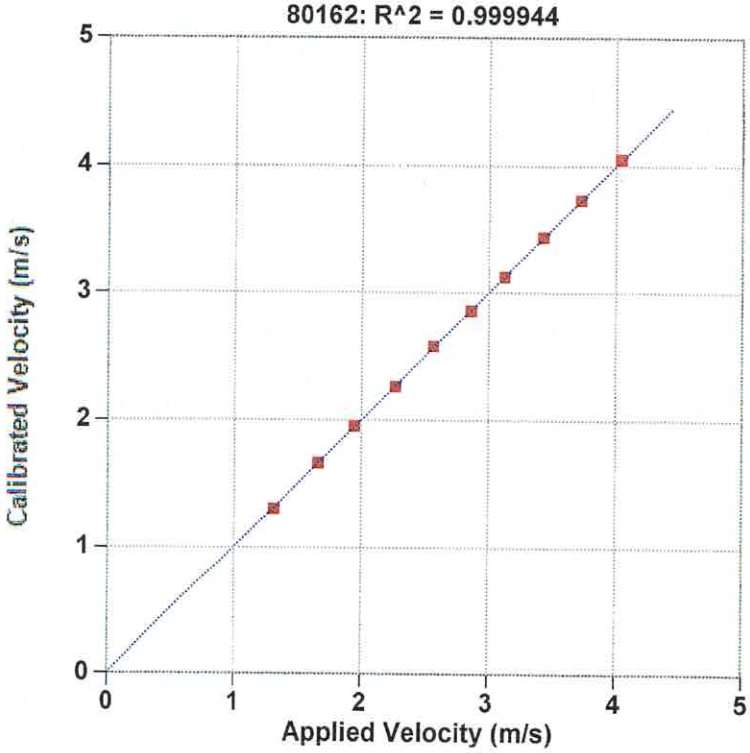
897.0 g's/volt

R^2: 0.999944 [Chip programmed]

Operator: William Johnson

Signed

PILE DYNAMICS, INC.
ORIGINAL COPY



Reference Velocity	S/N 80162 Velocity
m/s	m/s
1.312	1.306
1.666	1.667
1.948	1.953
2.273	2.266
2.574	2.583
2.867	2.859
3.132	3.124
3.439	3.438
3.732	3.733
4.045	4.055

Maximum Acceleration: 873 g's

Accelerometer Calibration Certificate
Pile Dynamics, Inc.

Calibrated by Pile Dynamics, Inc.
Calibration performed on

JUL 1 8 2024

Serial No:	80014	**Temperature:**	23.5 °C
Model:	PE	**Humidity:**	41%
Calibrated on:	Channel 3 on 8G 5161 LE		

Ref Acc 1:	78268! 986 g's/volt	**Cal on:**	11Jan2024
Ref Acc 2:	78270! 971 g's/volt	**Cal on:**	11Jan2024

Reference accelerometer calibrations are traceable to the United States National Institute of Standards and Technology (NIST).

PDA CALIBRATION FACTOR

914.9 g's/volt

R^2: 0.999944 [Chip programmed]

Operator: William Johnson

Signed

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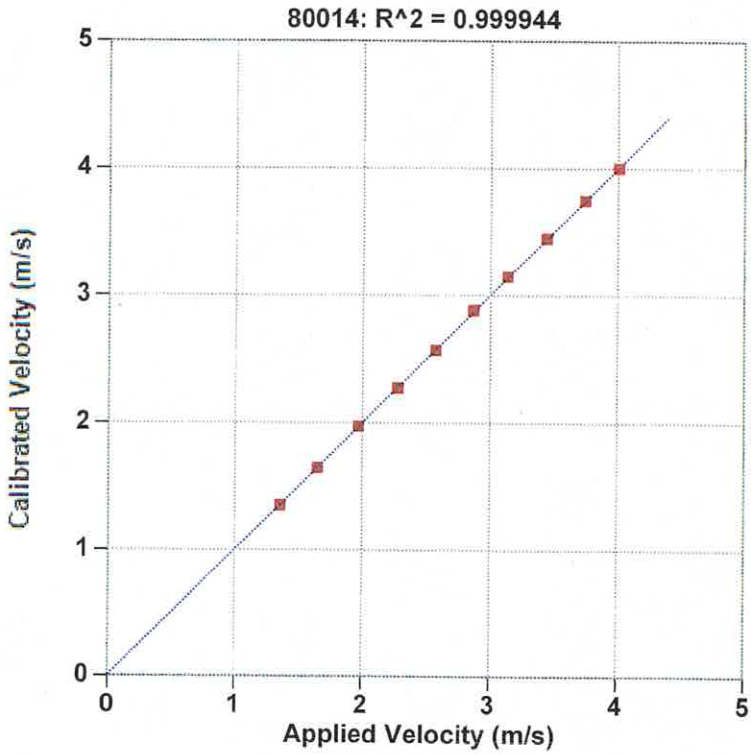


Reference Velocity	S/N 80014 Velocity
m/s	m/s
1.357	1.351
1.651	1.646
1.972	1.971
2.282	2.273
2.577	2.573
2.872	2.886
3.143	3.148
3.447	3.449
3.745	3.747
4.013	4.007

Maximum Acceleration: 864 g's

Accelerometer Calibration Certificate
Pile Dynamics, Inc.

Calibrated by Pile Dynamics, Inc.
Calibration performed on JUL 1 9 2024

Serial No:	K13859	**Temperature:**	21.9 °C
Model:	PR	**Humidity:**	27%
Calibrated on:	Channel 3 on 8G 5161 LE		

Ref Acc 1:	72517! 1049 g's/volt	**Cal on:**	24Mar2022
Ref Acc 2:	72505! 1035 g's/volt	**Cal on:**	24Mar2022

Reference accelerometer calibrations are traceable to the United States National Institute of Standards and Technology (NIST).

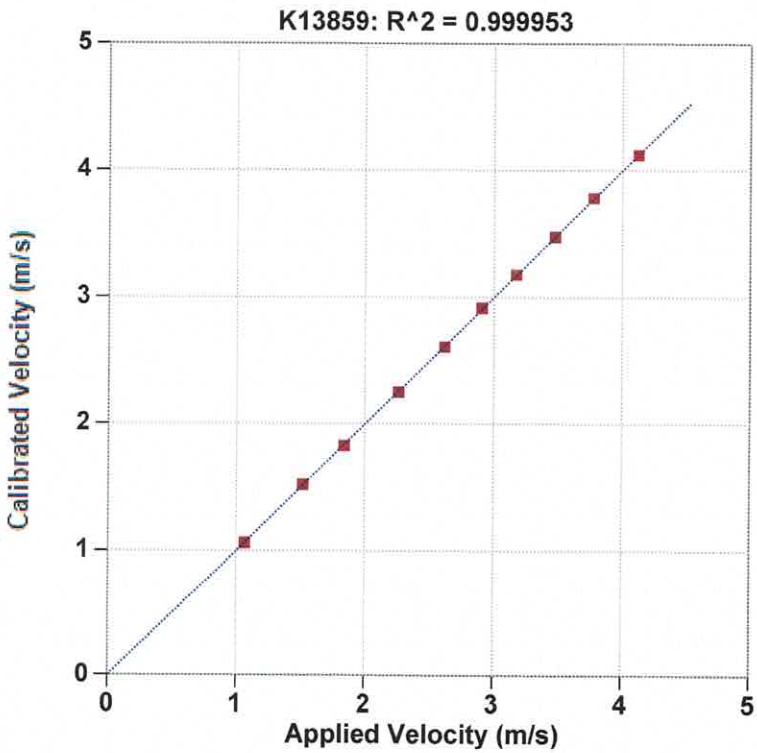
PDA CALIBRATION FACTOR

365.4 mv/5000g
(73.1 µv/g)
R^2: 0.999953 [Chip programmed]

Operator: William Johnson

Signed

PILE DYNAMICS, INC.
ORIGINAL COPY



Reference Velocity	S/N K13859 Velocity
m/s	m/s
1.068	1.063
1.517	1.522
1.839	1.828
2.262	2.256
2.618	2.613
2.907	2.919
3.177	3.182
3.478	3.478
3.777	3.782
4.127	4.121

Maximum Acceleration: 884 g's

Accelerometer Calibration Certificate
Pile Dynamics, Inc.

Calibrated by Pile Dynamics, Inc.
Calibration performed on

JUL 1 9 2024

Serial No:	K14032	**Temperature:**	24.9 °C
Model:	PR	**Humidity:**	40%
Calibrated on:	Channel 4 on 8G 5161 LE		

Ref Acc 1:	78270! 971 g's/volt	**Cal on:**	11Jan2024
Ref Acc 2:	78268! 986 g's/volt	**Cal on:**	11Jan2024

Reference accelerometer calibrations are traceable to the United States National Institute of Standards and Technology (NIST).

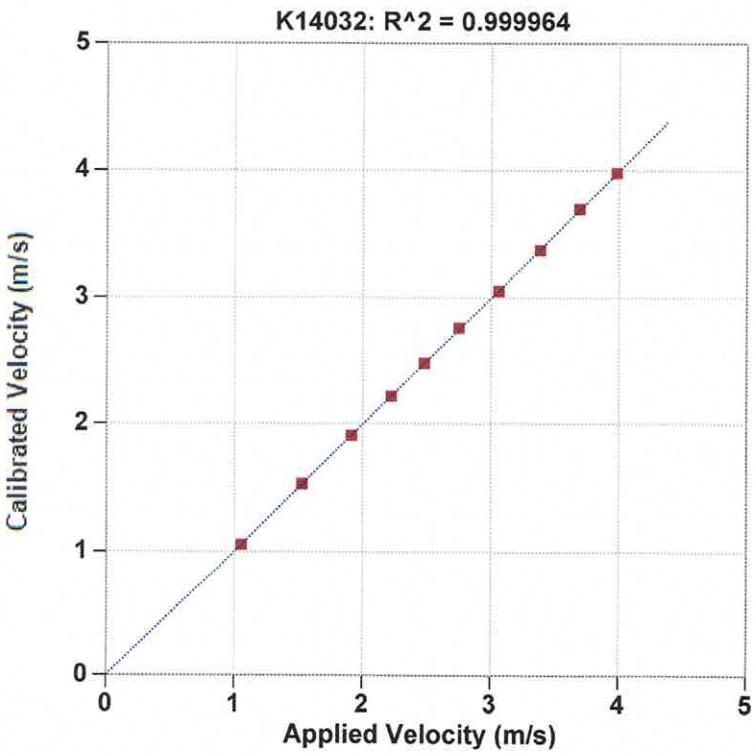
PDA CALIBRATION FACTOR

349.8 mv/5000g
(70.0 µv/g)
R^2: 0.999964 [Chip programmed]

Operator: William Johnson

Signed

PILE DYNAMICS, INC.
ORIGINAL COPY



Reference Velocity	S/N K14032 Velocity
m/s	m/s
1.054	1.054
1.526	1.526
1.912	1.908
2.225	2.219
2.481	2.479
2.750	2.759
3.059	3.053
3.385	3.378
3.690	3.699
3.979	3.982

Maximum Acceleration: 859 g's

Accelerometer Calibration Certificate
Pile Dynamics, Inc.

Calibrated by Pile Dynamics, Inc.
Calibration performed on JUL 1 9 2024

Serial No:	K14033	**Temperature:**	24.9 °C
Model:	PR	**Humidity:**	40%
Calibrated on:	Channel 3 on 8G 5161 LE		

Ref Acc 1:	78270! 971 g's/volt	**Cal on:**	11Jan2024
Ref Acc 2:	78268! 986 g's/volt	**Cal on:**	11Jan2024

Reference accelerometer calibrations are traceable to the United States National Institute of Standards and Technology (NIST).

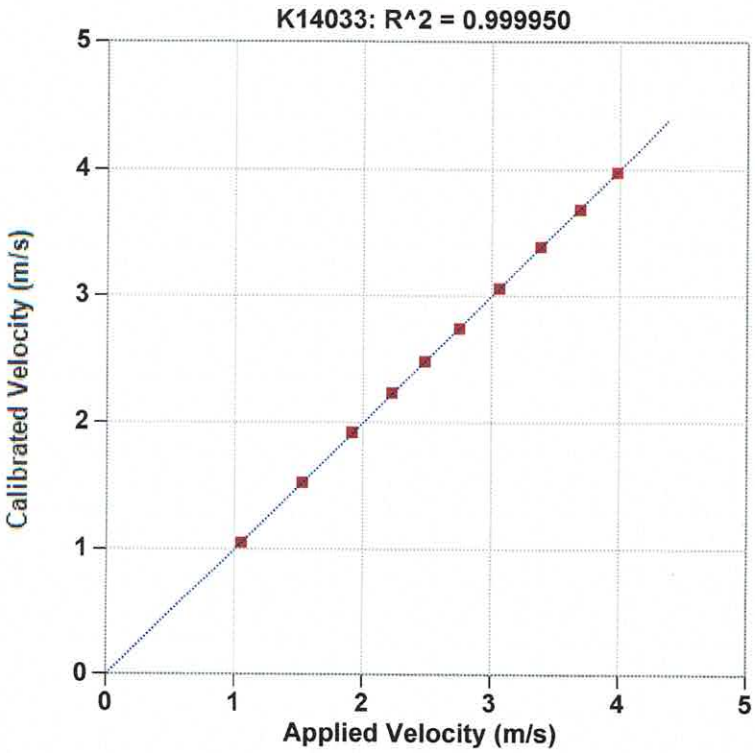
PDA CALIBRATION FACTOR

355.6 mv/5000g
(71.1 µv/g)
R^2: 0.999950 [Chip programmed]

Operator: William Johnson

Signed

PILE DYNAMICS, INC.
ORIGINAL COPY



Reference Velocity	S/N K14033 Velocity
m/s	m/s
1.054	1.050
1.526	1.528
1.912	1.923
2.225	2.235
2.481	2.482
2.750	2.742
3.059	3.060
3.385	3.387
3.690	3.682
3.979	3.978

Maximum Acceleration: 859 g's

Accelerometer Calibration Certificate
Pile Dynamics, Inc.

Calibrated by Pile Dynamics, Inc.
Calibration performed on

JUL 1 9 2024

Serial No:	K14034	**Temperature:**	24.9 °C
Model:	PR	**Humidity:**	40%
Calibrated on:	Channel 4 on 8G 5161 LE		

Ref Acc 1:	78270! 971 g's/volt	**Cal on:**	11Jan2024
Ref Acc 2:	78268! 986 g's/volt	**Cal on:**	11Jan2024

Reference accelerometer calibrations are traceable to the United States National Institute of Standards and Technology (NIST).

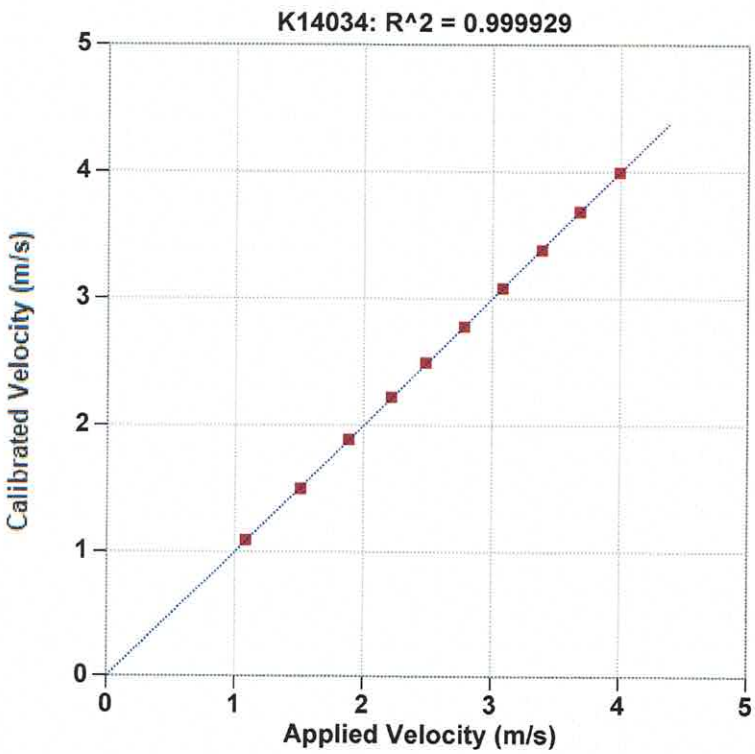
PDA CALIBRATION FACTOR

322.3 mv/5000g
(64.5 µv/g)
R^2: 0.999929 [Chip programmed]

Operator: William Johnson

Signed

PILE DYNAMICS, INC.
ORIGINAL COPY



Reference Velocity	S/N K14034 Velocity
m/s	m/s
1.085	1.090
1.511	1.499
1.884	1.890
2.217	2.224
2.483	2.498
2.784	2.779
3.083	3.080
3.389	3.380
3.684	3.684
3.993	3.994

Maximum Acceleration: 862 g's

Accelerometer Calibration Certificate
Pile Dynamics, Inc.

Calibrated by Pile Dynamics, Inc.
Calibration performed on JUL 1 9 2024

Serial No:	K14035	**Temperature:**	24.9 °C
Model:	PR	**Humidity:**	40%
Calibrated on:	Channel 3 on 8G 5161 LE		

Ref Acc 1:	78270! 971 g's/volt	**Cal on:**	11Jan2024
Ref Acc 2:	78268! 986 g's/volt	**Cal on:**	11Jan2024

Reference accelerometer calibrations are traceable to the United States National Institute of Standards and Technology (NIST).

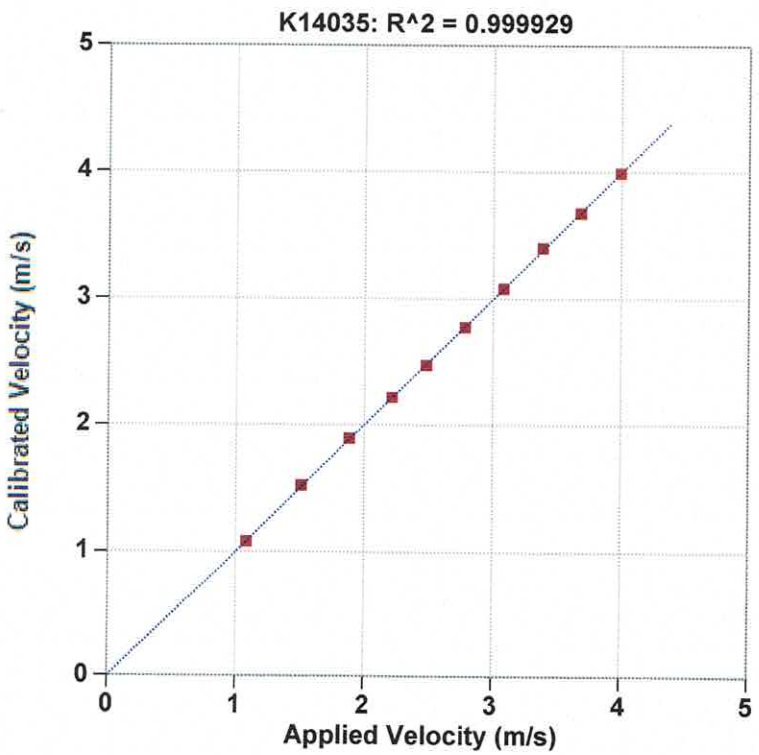
PDA CALIBRATION FACTOR

334.8 mv/5000g
(67.0 µv/g)
R^2: 0.999929 [Chip programmed]

Operator: William Johnson

Signed

PILE DYNAMICS, INC.
ORIGINAL COPY



Reference Velocity	S/N K14035 Velocity
m/s	m/s
1.085	1.084
1.511	1.523
1.884	1.892
2.217	2.219
2.483	2.477
2.784	2.778
3.083	3.082
3.389	3.401
3.684	3.675
3.993	3.991

Maximum Acceleration: 862 g's

Accelerometer Calibration Certificate
Pile Dynamics, Inc.

Calibrated by Pile Dynamics, Inc.
Calibration performed on JUL 1 9 2024

Serial No:	K14065	**Temperature:**	25.7 °C
Model:	PR	**Humidity:**	42%
Calibrated on:	Channel 3 on 8G 5161 LE		

Ref Acc 1:	78268! 986 g's/volt	**Cal on:**	11Jan2024
Ref Acc 2:	78270! 971 g's/volt	**Cal on:**	11Jan2024

Reference accelerometer calibrations are traceable to the United States National Institute of Standards and Technology (NIST).

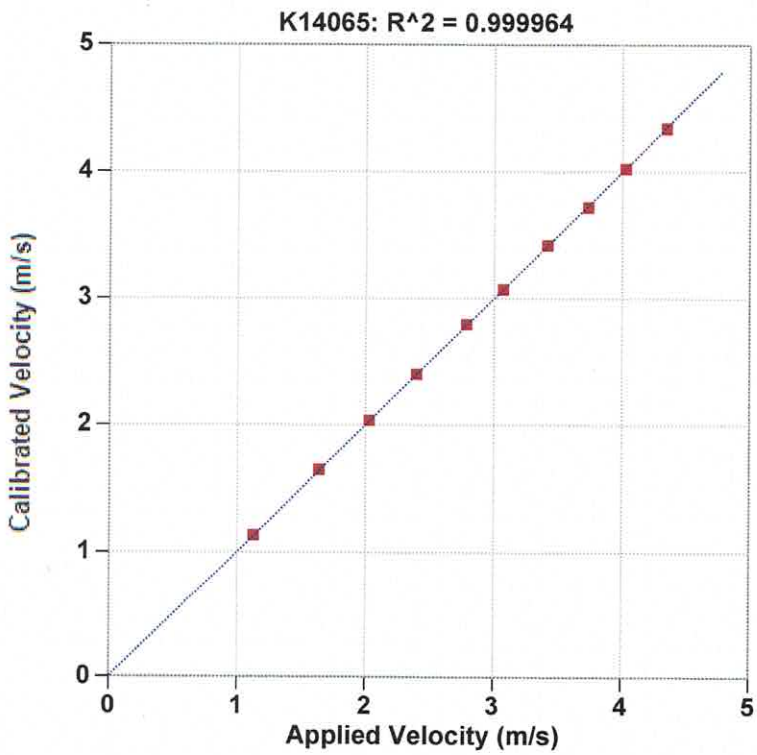
PDA CALIBRATION FACTOR

346.4 mv/5000g
(69.3 µv/g)
R^2: 0.999964 [Chip programmed]

Operator: William Johnson

Signed

PILE DYNAMICS, INC.
ORIGINAL COPY



Reference Velocity	S/N K14065 Velocity
m/s	m/s
1.129	1.137
1.641	1.648
2.032	2.035
2.399	2.400
2.788	2.796
3.075	3.076
3.420	3.424
3.737	3.726
4.028	4.031
4.350	4.343

Maximum Acceleration: 945 g's

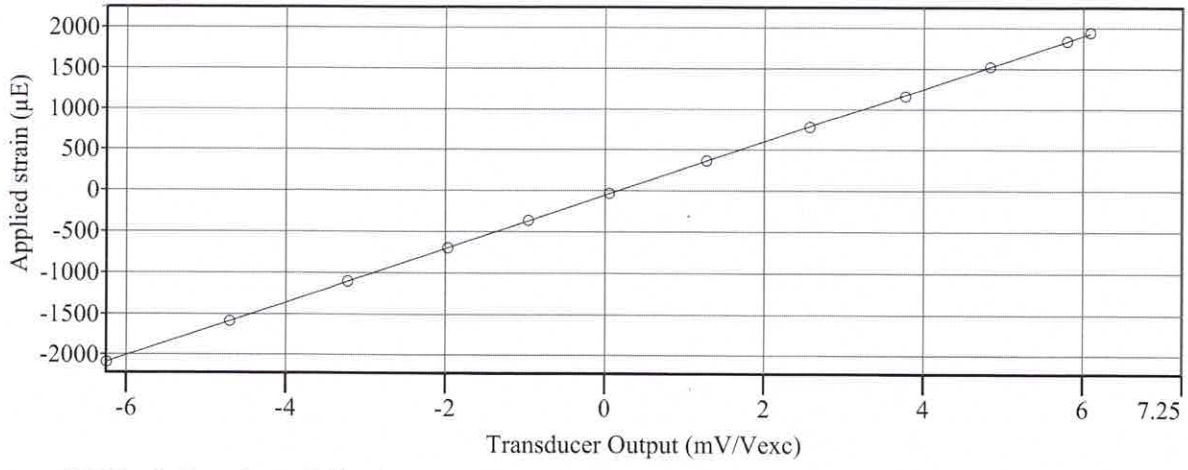
Certificate of Calibration

Pile Dynamics, Inc.
Transducer Model: PDI Strain Transducer
Serial Number: 35A
PDI Gage Factor: 94.2
Mean Linear Correlation Coefficient: 0.999976

Table 1: Representative Calibration Data

Applied strain (µE)	Gage Output (mV/Vexc)	Applied strain (µE)	Gage Output (mV/Vexc)
-2093.2	-6.244	360.9	1.276
-1587.9	-4.701	774.3	2.570
-1102.4	-3.223	1161.4	3.772
-695.5	-1.968	1522.3	4.830
-360.9	-0.959	1837.3	5.798
-32.8	0.057	1942.3	6.090

Calibration Curve



PDI Strain Transducer Calibration System (PDI STCS)

PDI STCS Serial Number:	1000HA
Firmware version number:	0.9.0.0
Transducer Gage Length:	3 inches (76.2mm)
Excitation Voltage for Calibration:	5.0 VDC

PDI certifies the above STCS 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.

Calibrated By: Paul Hartman Signature: Paul Hartman

PDI Gage: 35A
Calibration Date: JUL 19 2024

Pile Dynamics, Inc.

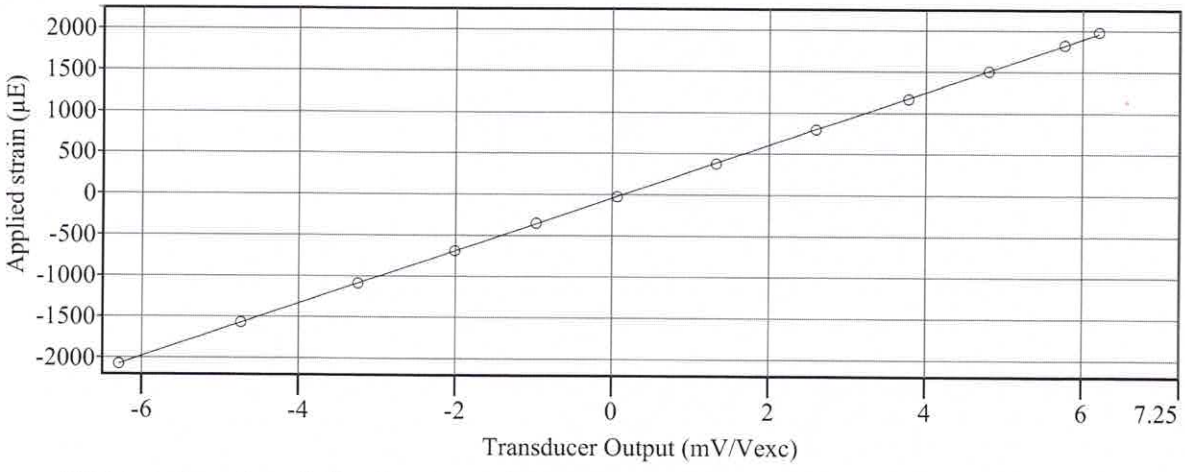
Certificate of Calibration

Pile Dynamics, Inc.
Transducer Model: PDI Strain Transducer
Serial Number: 38A
PDI Gage Factor: 93.3
Mean Linear Correlation Coefficient: 0.999965

Table 1: Representative Calibration Data

Applied strain (μE)	Gage Output (mV/Vexc)	Applied strain (μE)	Gage Output (mV/Vexc)
-2073.5	-6.292	374.0	1.321
-1568.2	-4.734	794.0	2.598
-1091.4	-3.241	1168.0	3.780
-689.0	-2.008	1502.6	4.801
-350.0	-0.970	1824.1	5.773
-26.2	0.063	1981.6	6.210

Calibration Curve



PDI Strain Transducer Calibration System (PDI STCS)

PDI STCS Serial Number:	1000HA
Firmware version number:	0.9.0.0
Transducer Gage Length:	3 inches (76.2mm)
Excitation Voltage for Calibration:	5.0 VDC

PDI certifies the above STCS 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.

Calibrated By: Paul Hartman Signature: Paul Hartman

PDI Gage: 38A
Calibration Date: JUL 19 2024

Pile Dynamics, Inc.

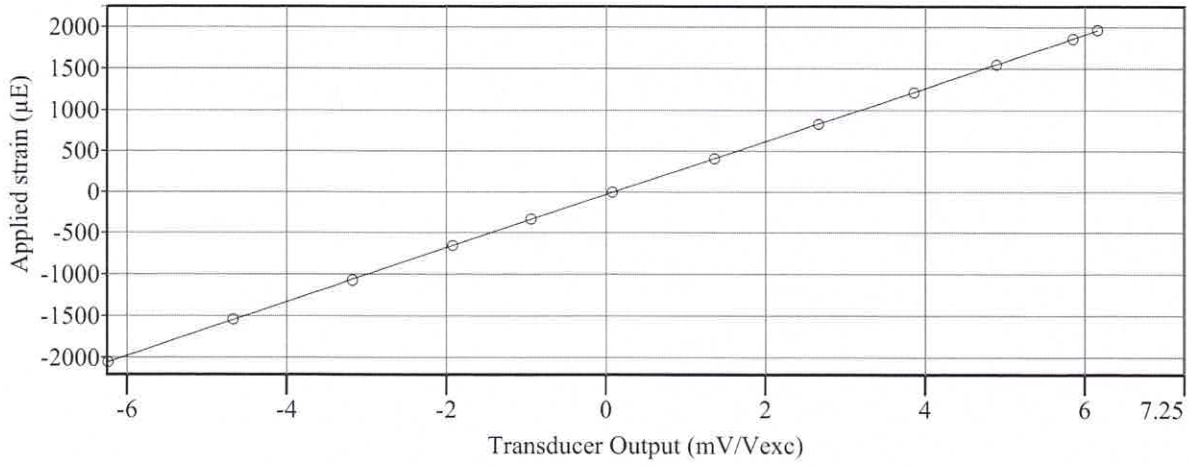
Certificate of Calibration

Pile Dynamics, Inc.
Transducer Model: PDI Strain Transducer
Serial Number: Z956
PDI Gage Factor: 93.6
Mean Linear Correlation Coefficient: 0.999990

Table 1: Representative Calibration Data

Applied strain (μE)	Gage Output (mV/Vexc)	Applied strain (μE)	Gage Output (mV/Vexc)
-2053.8	-6.239	406.8	1.358
-1542.0	-4.671	826.8	2.664
-1069.6	-3.173	1213.9	3.861
-656.2	-1.923	1548.6	4.890
-334.6	-0.937	1863.5	5.850
-4.4	0.080	1968.5	6.155

Calibration Curve



PDI Strain Transducer Calibration System (PDI STCS)

PDI STCS Serial Number:	1000HA
Firmware version number:	0.9.0.0
Transducer Gage Length:	3 inches (76.2mm)
Excitation Voltage for Calibration:	5.0 VDC

PDI certifies the above STCS 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.

Calibrated By: VANNA OUK Signature: Vanna

PDI Gage: Z956
Calibration Date: JUL 1 8 2024

Pile Dynamics, Inc.

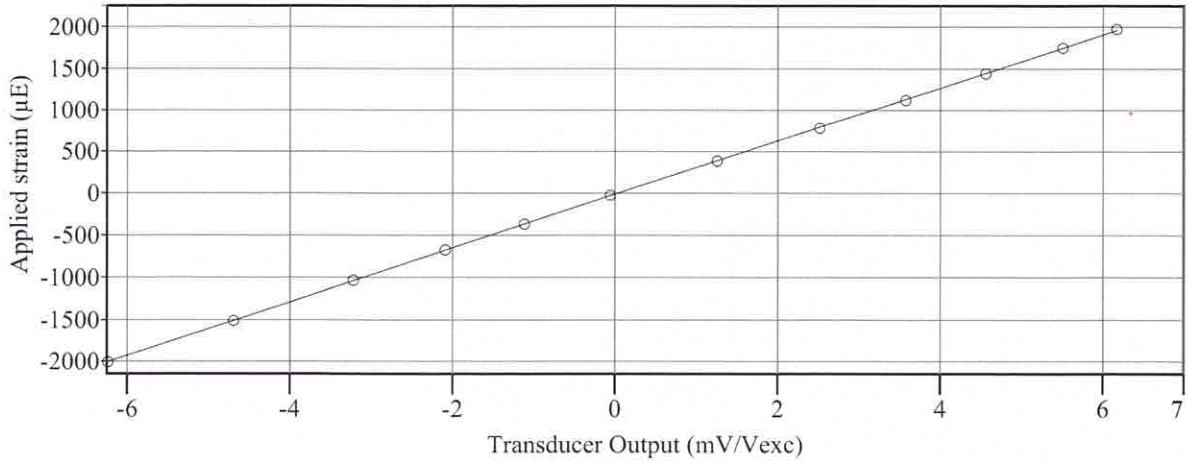
Certificate of Calibration

Pile Dynamics, Inc.
Transducer Model: PDI Strain Transducer
Serial Number: Z957
PDI Gage Factor: 92.3
Mean Linear Correlation Coefficient: 0.999972

Table 1: Representative Calibration Data

Applied strain (µE)	Gage Output (mV/Vexc)	Applied strain (µE)	Gage Output (mV/Vexc)
-2007.9	-6.236	387.1	1.253
-1509.2	-4.690	780.8	2.517
-1032.4	-3.217	1122.0	3.576
-675.9	-2.090	1443.6	4.560
-367.5	-1.114	1752.0	5.507
-26.2	-0.059	1972.9	6.170

Calibration Curve



PDI Strain Transducer Calibration System (PDI STCS)

PDI STCS Serial Number:	1000HA
Firmware version number:	0.9.0.0
Transducer Gage Length:	3 inches (76.2mm)
Excitation Voltage for Calibration:	5.0 VDC

PDI certifies the above STCS 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.

Calibrated By: VANNA OUK Signature:

PDI Gage: Z957
Calibration Date: JUL 1 8 2024

Pile Dynamics, Inc.

Accelerometer Calibration Certificate
Pile Dynamics, Inc.

Calibrated by Pile Dynamics, Inc.
Calibration performed on JUL 1 9 2024

Serial No:	79618	**Temperature:**	23.6 °C
Model:	PE	**Humidity:**	54%
Calibrated on:	Channel 3 on 8G 5161 LE		

Ref Acc 1:	78270! 971 g's/volt	**Cal on:**	11Jan2024
Ref Acc 2:	78268! 986 g's/volt	**Cal on:**	11Jan2024

Reference accelerometer calibrations are traceable to the United States National Institute of Standards and Technology (NIST).

PDA CALIBRATION FACTOR

933.8 g's/volt

R^2: 0.999959 [No chip]

Operator: William Johnson

Signed

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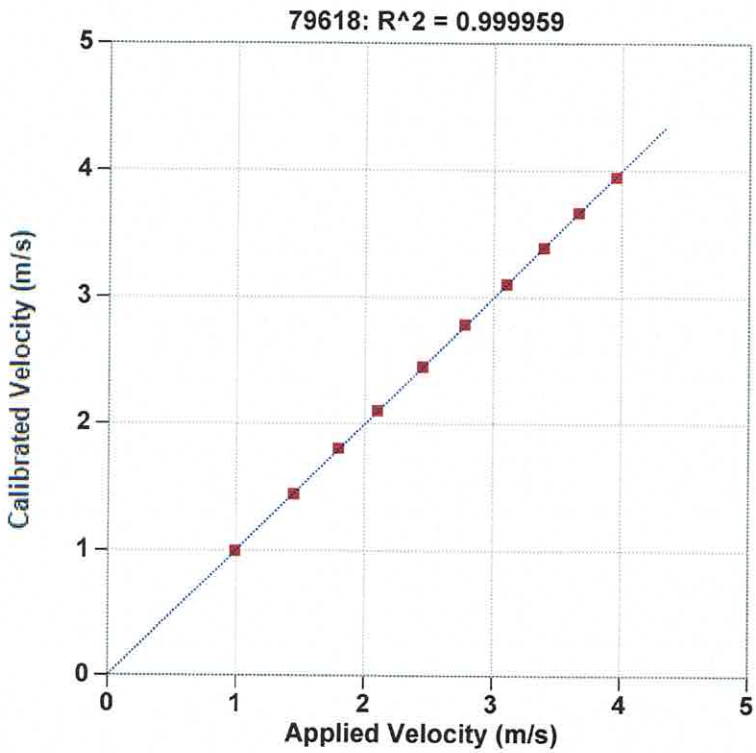


Reference Velocity	S/N 79618 Velocity
m/s	m/s
0.992	0.995
1.447	1.441
1.795	1.802
2.098	2.105
2.449	2.452
2.777	2.785
3.102	3.103
3.393	3.387
3.664	3.664
3.956	3.946

Maximum Acceleration: 845 g's

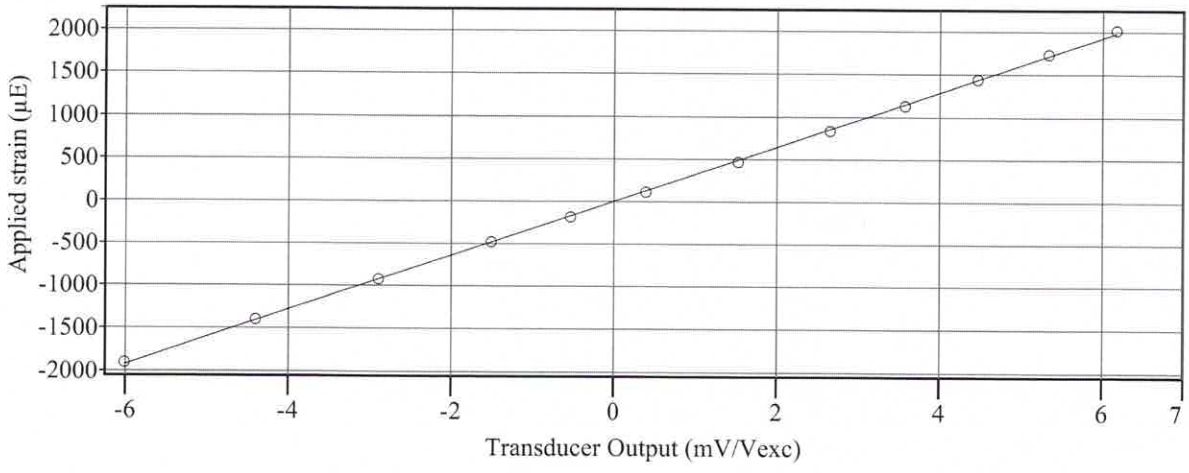
Certificate of Calibration

Pile Dynamics, Inc.
Transducer Model: PDI Strain Transducer
Serial Number: Y916
PDI Gage Factor: 92.6
Mean Linear Correlation Coefficient: 0.999776

Table 1: Representative Calibration Data

Applied strain (με)	Gage Output (mV/Vexc)	Applied strain (με)	Gage Output (mV/Vexc)
-1902.9	-6.013	465.9	1.521
-1397.6	-4.401	833.3	2.651
-925.2	-2.892	1128.6	3.575
-479.0	-1.506	1437.0	4.464
-183.7	-0.536	1730.1	5.338
111.5	0.390	2014.4	6.169

Calibration Curve



PDI Strain Transducer Calibration System (PDI STCS)

PDI STCS Serial Number:	1000HA
Firmware version number:	0.9.0.0
Transducer Gage Length:	3 inches (76.2mm)
Excitation Voltage for Calibration:	5.0 VDC

PDI certifies the above STCS 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.

Calibrated By: Kay Tol

Signature: Kay Tol

PDI Gage: Y916

Calibration Date: JUL 19 2024

Pile Dynamics, Inc.

Accelerometer Calibration Certificate
Pile Dynamics, Inc.

Calibrated by Pile Dynamics, Inc.
Calibration performed on JUL 1 8 2024

Serial No:	K13941	**Temperature:**	24.7 °C
Model:	PR	**Humidity:**	47%
Calibrated on:	Channel 3 on 8G 5161 LE		

Ref Acc 1:	78270! 971 g's/volt	**Cal on:**	11Jan2024
Ref Acc 2:	78268! 986 g's/volt	**Cal on:**	11Jan2024

Reference accelerometer calibrations are traceable to the United States National Institute of Standards and Technology (NIST).

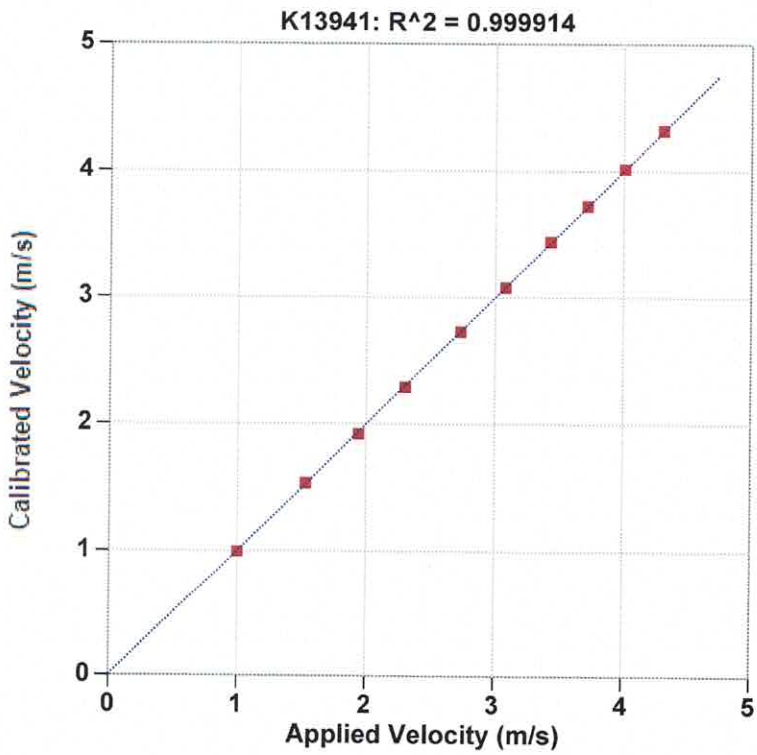
PDA CALIBRATION FACTOR

389.2 mv/5000g
(77.8 µv/g)
R^2: 0.999914 [Chip programmed]

Operator: William Johnson

Signed

PILE DYNAMICS, INC.
ORIGINAL COPY



Reference Velocity	S/N K13941 Velocity
m/s	m/s
1.004	0.996
1.532	1.541
1.942	1.921
2.305	2.292
2.736	2.730
3.085	3.083
3.436	3.447
3.723	3.728
4.013	4.018
4.317	4.320

Maximum Acceleration: 935 g's

Accelerometer Calibration Certificate
Pile Dynamics, Inc.

Calibrated by Pile Dynamics, Inc.
Calibration performed on JUL 1 8 2024

Serial No:	K13939	**Temperature:**	24.7 °C
Model:	PR	**Humidity:**	48%
Calibrated on:	Channel 3 on 8G 5161 LE		

Ref Acc 1:	78270! 971 g's/volt	**Cal on:**	11Jan2024
Ref Acc 2:	78268! 986 g's/volt	**Cal on:**	11Jan2024

Reference accelerometer calibrations are traceable to the United States National Institute of Standards and Technology (NIST).

PDA CALIBRATION FACTOR

389.4 mv/5000g
(77.9 µv/g)
R^2: 0.999917 [Chip programmed]

Operator: William Johnson

Signed

PILE DYNAMICS, INC.
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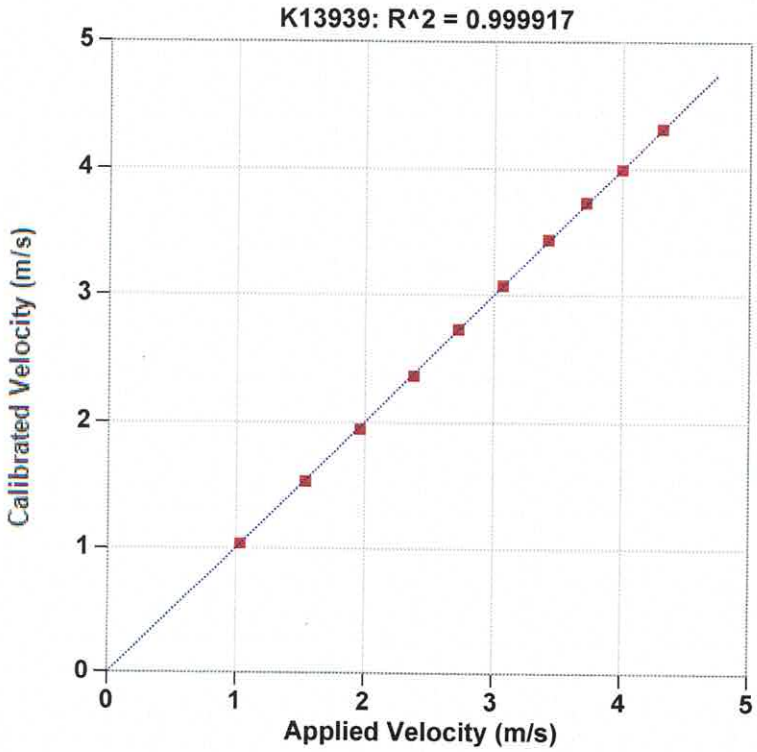


Reference Velocity	S/N K13939 Velocity
m/s	m/s
1.036	1.037
1.542	1.532
1.964	1.947
2.382	2.366
2.730	2.730
3.074	3.075
3.429	3.440
3.722	3.733
3.999	3.998
4.317	4.320

Maximum Acceleration: 936 g's

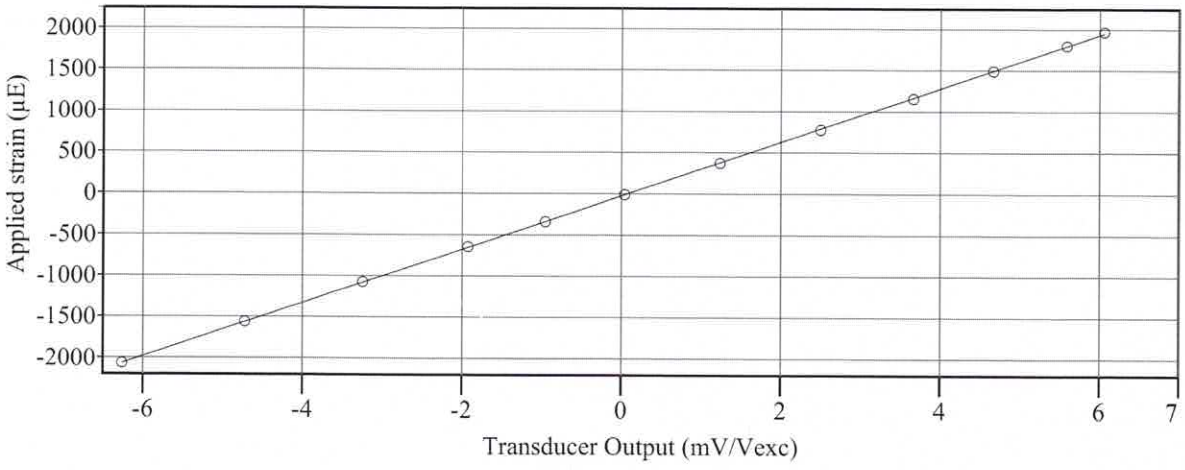
Certificate of Calibration

Pile Dynamics, Inc.
Transducer Model: PDI Strain Transducer
Serial Number: 33A
PDI Gage Factor: 94.1
Mean Linear Correlation Coefficient: 0.999946

Table 1: Representative Calibration Data

Applied strain (μE)	Gage Output (mV/Vexc)	Applied strain (μE)	Gage Output (mV/Vexc)
-2064.7	-6.263	367.5	1.234
-1561.7	-4.722	774.3	2.497
-1076.1	-3.245	1154.9	3.661
-643.0	-1.921	1489.5	4.661
-336.8	-0.954	1797.9	5.584
-13.1	0.042	1968.5	6.054

Calibration Curve



PDI Strain Transducer Calibration System (PDI STCS)

PDI STCS Serial Number:	1000HA
Firmware version number:	0.9.0.0
Transducer Gage Length:	3 inches (76.2mm)
Excitation Voltage for Calibration:	5.0 VDC

PDI certifies the above STCS 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.

Calibrated By: Paul Hartman Signature: Paul Hartman

PDI Gage: 33A

Calibration Date: JUL 18 2024

Pile Dynamics, Inc.

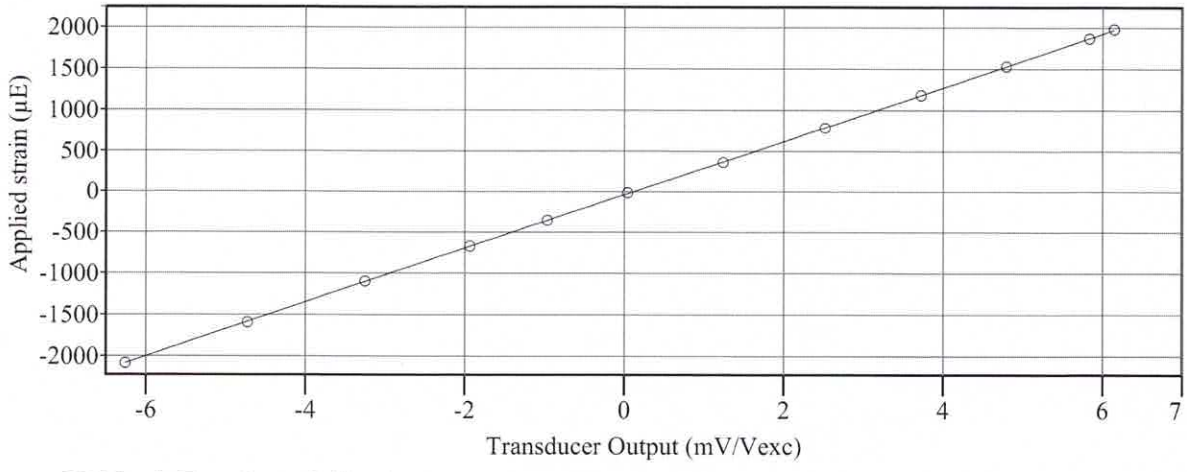
Certificate of Calibration

Pile Dynamics, Inc.
Transducer Model: PDI Strain Transducer
Serial Number: 34A
PDI Gage Factor: 94.6
Mean Linear Correlation Coefficient: 0.999981

Table 1: Representative Calibration Data

Applied strain (μE)	Gage Output (mV/Vexc)	Applied strain (μE)	Gage Output (mV/Vexc)
-2086.6	-6.260	360.9	1.236
-1594.5	-4.726	780.8	2.518
-1095.8	-3.251	1181.1	3.723
-669.3	-1.933	1528.9	4.791
-354.3	-0.965	1870.1	5.833
-13.1	0.042	1981.6	6.144

Calibration Curve



PDI Strain Transducer Calibration System (PDI STCS)

PDI STCS Serial Number:	1000HA
Firmware version number:	0.9.0.0
Transducer Gage Length:	3 inches (76.2mm)
Excitation Voltage for Calibration:	5.0 VDC

PDI certifies the above STCS 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.

Calibrated By: Paul Hartman Signature: Paul Hartman

PDI Gage: 34A

Calibration Date: JUL 18 2024