



Certificate of Calibration

Pile Dynamics, Inc.

Transducer Model: PDI Strain Transducer

Serial Number: 357A

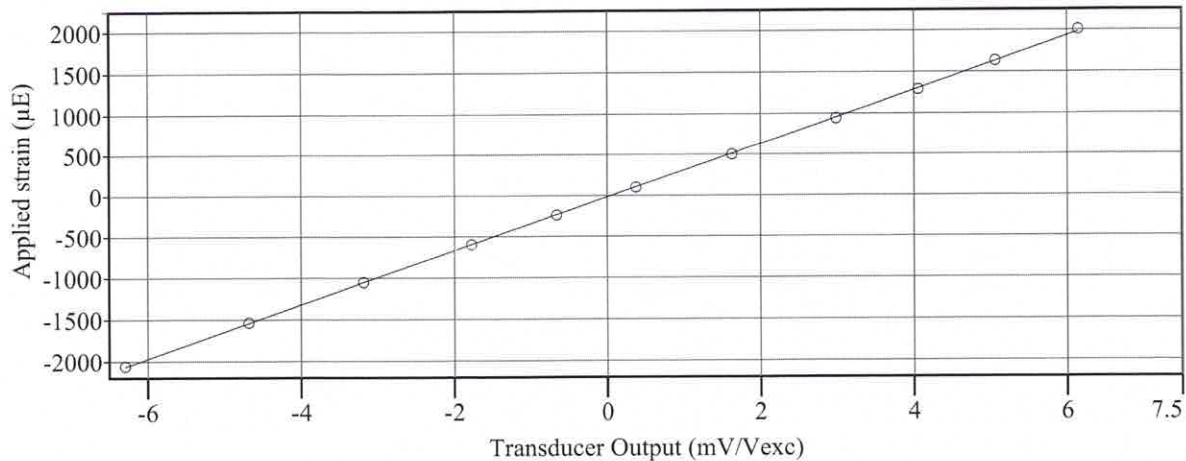
PDI Gage Factor: 94.1

Mean Linear Correlation Coefficient: 0.999935

Table 1: Representative Calibration Data

Applied strain (μE)	Gage Output (mV/Vexc)	Applied strain (μE)	Gage Output (mV/Vexc)
-2060.4	-6.294	498.7	1.624
-1535.4	-4.679	944.9	2.984
-1049.9	-3.182	1292.7	4.060
-597.1	-1.768	1633.9	5.062
-236.2	-0.662	2007.9	6.144
98.4	0.374		

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: 357A

Calibration Date: _____

OCT 09 2024



Accelerometer Calibration Certificate

Pile Dynamics, Inc.



Calibrated by Pile Dynamics, Inc.

Calibration performed on

OCT 09 2024

Serial No: 76414 Temperature: 23.6 °C

Model: PE Humidity: 52%

Calibrated on: Channel 3 on 8G 5161 LE

PDA CALIBRATION FACTOR

980.5 g's/volt

R²: 0.999958 [Chip programmed]

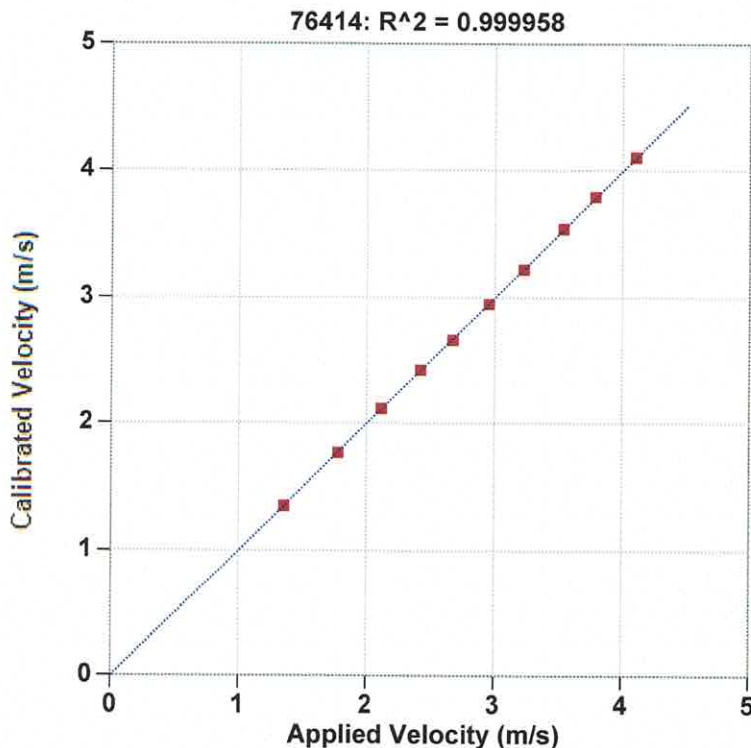
Operator: William Johnson

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

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

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


Signed



Reference Velocity	S/N 76414 Velocity
m/s	m/s
1.356	1.354
1.776	1.770
2.118	2.121
2.421	2.425
2.674	2.664
2.957	2.951
3.231	3.227
3.541	3.543
3.787	3.795
4.105	4.108
Maximum Acceleration: 889 g's	

Accelerometer Calibration Certificate
Pile Dynamics, Inc.



Calibrated by Pile Dynamics, Inc.
Calibration performed on

OCT 10 2024

Serial No: LW480770 Temperature: 23.8 °C
Model: PE Humidity: 25%
Calibrated on: Channel 3 on 8G 5161 LE

PDA CALIBRATION FACTOR
9.9 g's/volt

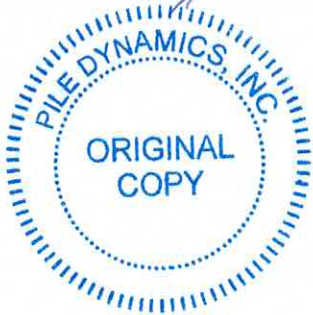
R^2: 0.999981 [No chip]

Operator: William Johnson

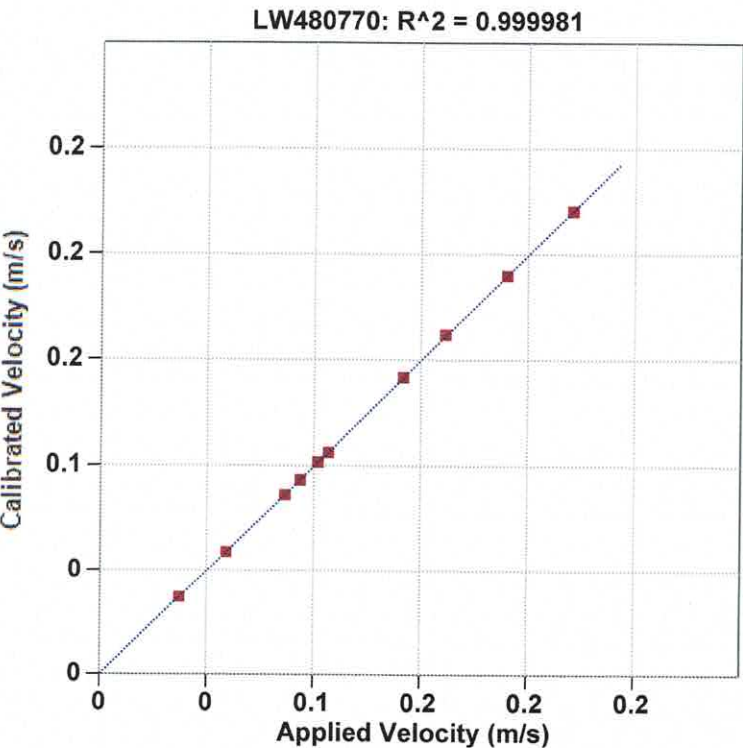
Ref Acc 1: LW423806! Cal on: 02Aug2022
10 g's/volt
Ref Acc 2: LW423794! Cal on: 28Jul2022
10 g's/volt

William Johnson

Signed



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



Reference Velocity	S/N LW480770 Velocity
m/s	m/s
0.037	0.037
0.059	0.059
0.086	0.086
0.093	0.093
0.102	0.102
0.107	0.106
0.142	0.142
0.161	0.162
0.190	0.190
0.221	0.221
Maximum Acceleration: 26 g's	

Accelerometer Calibration Certificate

Pile Dynamics, Inc.



Calibrated by Pile Dynamics, Inc.
Calibration performed on

OCT 10 2024

Serial No: LW481049 Temperature: 23.8 °C

Model: PE Humidity: 25%

Calibrated on: Channel 3 on 8G 5161 LE

PDA CALIBRATION FACTOR

10.0 g's/volt

R²: 0.999933 [No chip]

Operator: William Johnson

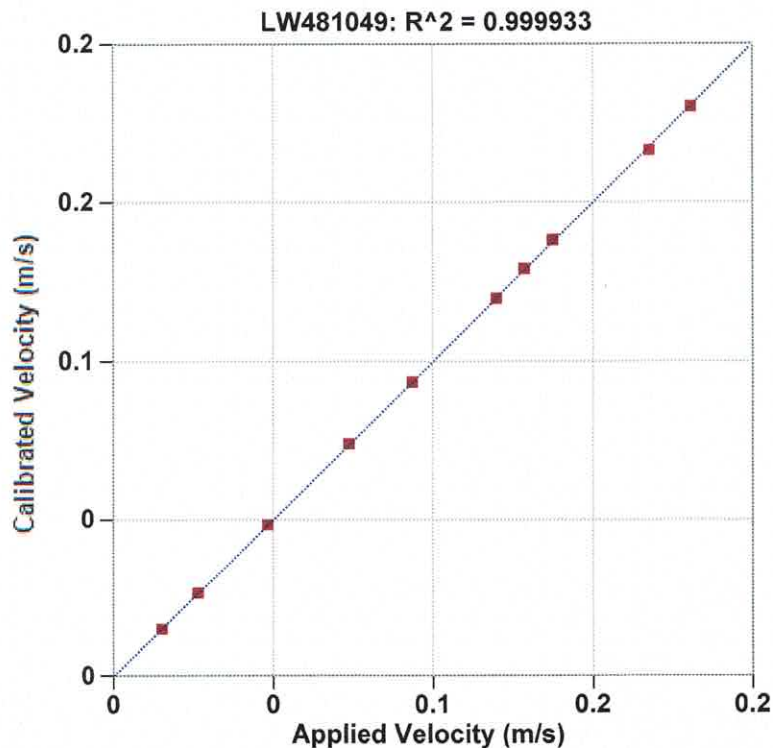
Ref Acc 1: LW423806! Cal on: 02Aug2022
10 g's/volt

Ref Acc 2: LW423794! Cal on: 28Jul2022
10 g's/volt

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

William Johnson

Signed



Reference Velocity	S/N LW481049 Velocity
m/s	m/s
0.015	0.015
0.026	0.027
0.048	0.048
0.074	0.074
0.093	0.094
0.120	0.120
0.129	0.129
0.137	0.138
0.168	0.167
0.181	0.180

Maximum Acceleration: 21 g's



Certificate of Calibration

Pile Dynamics, Inc.

Transducer Model: PDI Strain Transducer

Serial Number: 206A

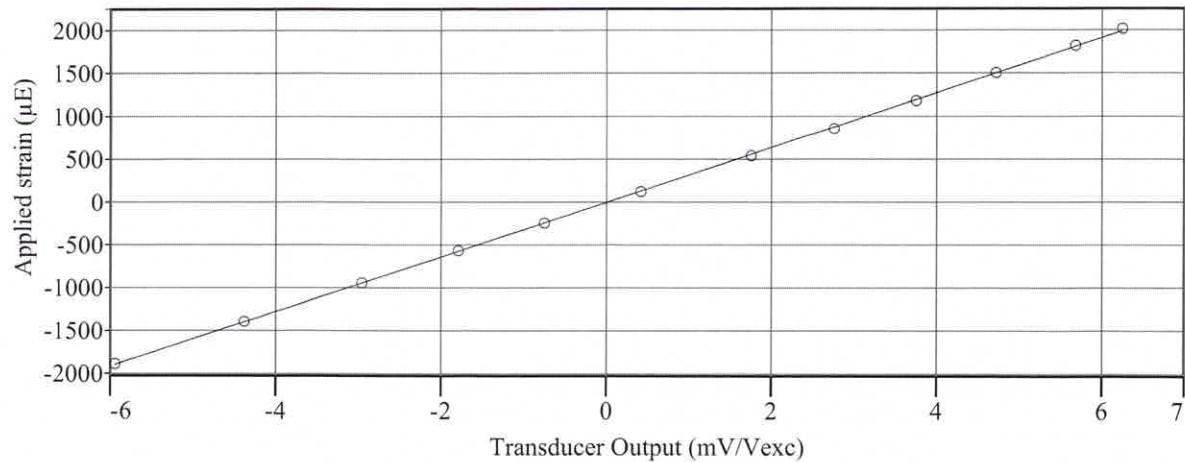
PDI Gage Factor: 92.1

Mean Linear Correlation Coefficient: 0.999905

Table 1: Representative Calibration Data

Applied strain (μE)	Gage Output (mV/Vexc)	Applied strain (μE)	Gage Output (mV/Vexc)
-1889.8	-5.945	538.1	1.752
-1391.1	-4.379	859.6	2.756
-944.9	-2.955	1181.1	3.750
-564.3	-1.792	1502.6	4.715
-242.8	-0.748	1817.6	5.682
124.7	0.418	2014.4	6.247

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: 206A

Calibration Date: OCT 09 2024





Certificate of Calibration

Pile Dynamics, Inc.

Transducer Model: PDI Strain Transducer

Serial Number: 001A

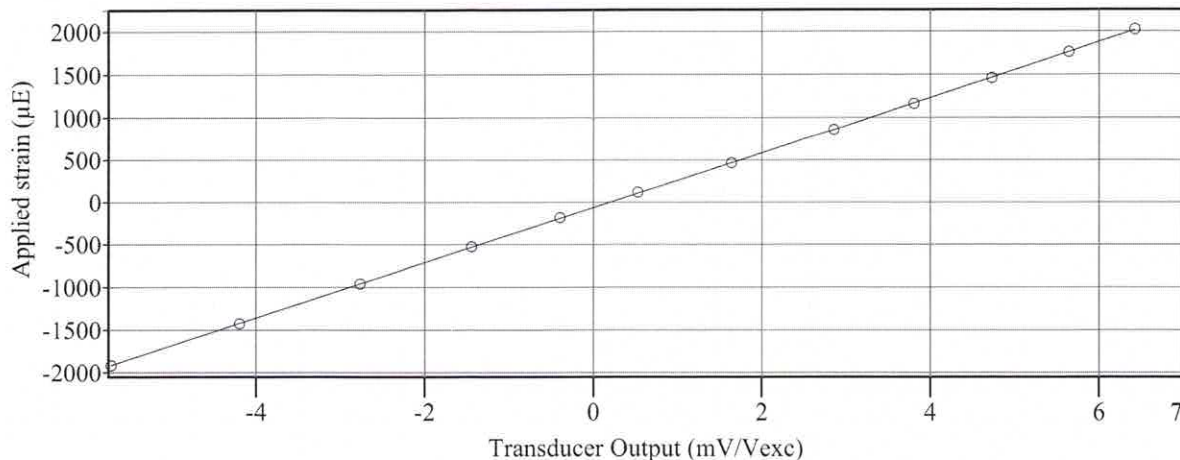
PDI Gage Factor: 93.4

Mean Linear Correlation Coefficient: 0.999980

Table 1: Representative Calibration Data

Applied strain (μE)	Gage Output (mV/Vexc)	Applied strain (μE)	Gage Output (mV/Vexc)
-1916.0	-5.720	465.9	1.636
-1423.9	-4.194	859.6	2.854
-958.0	-2.764	1161.4	3.805
-524.9	-1.444	1456.7	4.726
-183.7	-0.394	1758.5	5.643
118.1	0.531	2021.0	6.425

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: 001A

Calibration Date: **OCT 08 2024**





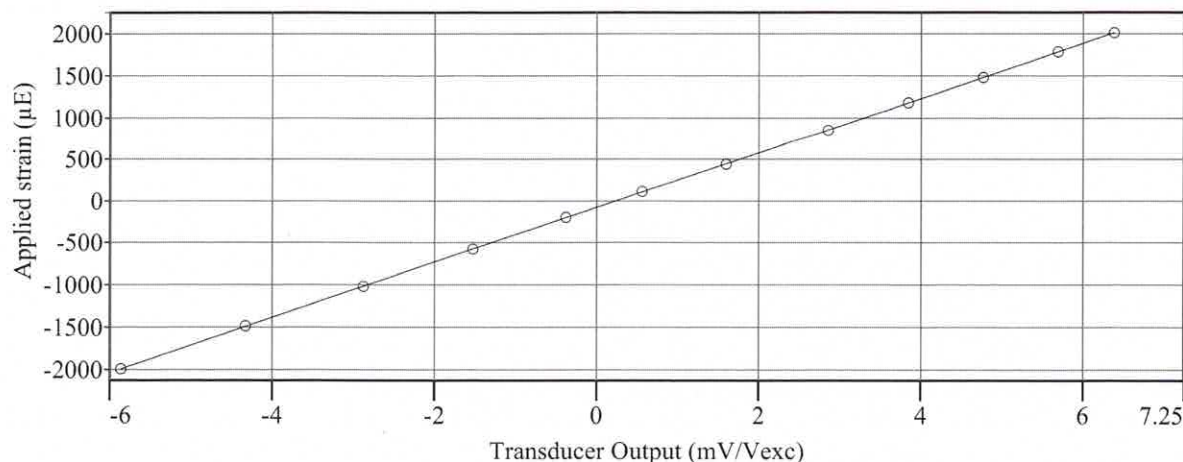
Certificate of Calibration

Pile Dynamics, Inc.
Transducer Model: PDI Strain Transducer
Serial Number: 002A
PDI Gage Factor: 94.4
Mean Linear Correlation Coefficient: 0.999994

Table 1: Representative Calibration Data

Applied strain (μE)	Gage Output (mV/Vexc)	Applied strain (μE)	Gage Output (mV/Vexc)
-1994.8	-5.865	439.6	1.593
-1485.1	-4.329	853.0	2.855
-1017.1	-2.876	1181.1	3.845
-577.4	-1.526	1482.9	4.767
-196.9	-0.378	1784.8	5.693
111.5	0.560	2007.9	6.381

Calibration Curve

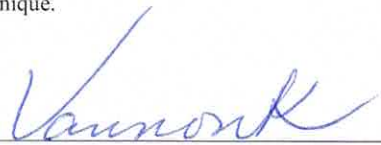


PDI Strain Transducer Calibration System (PDI STCS)

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: 002A

Calibration Date: OCT 0 8 2024





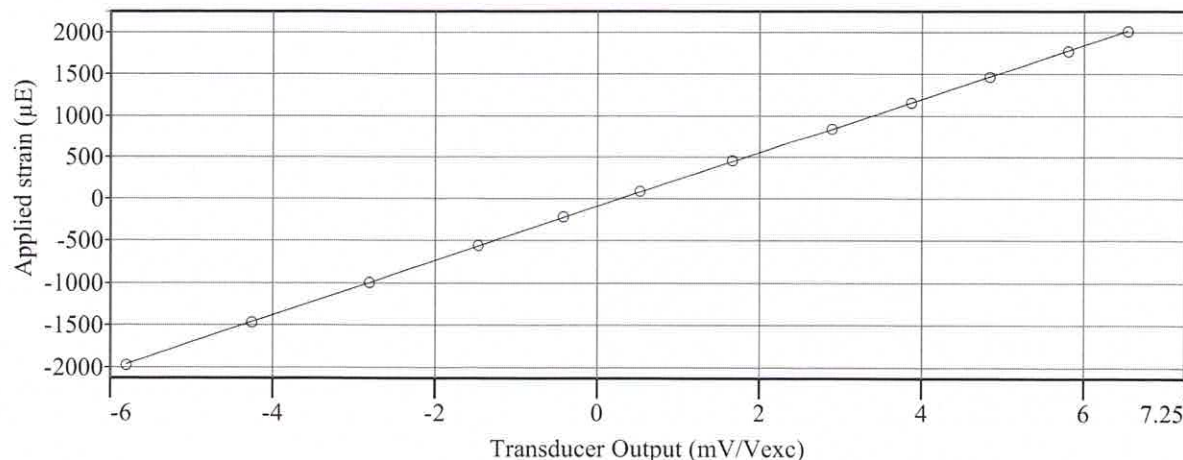
Certificate of Calibration

Pile Dynamics, Inc.
Transducer Model: PDI Strain Transducer
Serial Number: 003A
PDI Gage Factor: 93.1
Mean Linear Correlation Coefficient: 0.999964

Table 1: Representative Calibration Data

Applied strain (μE)	Gage Output (mV/Vexc)	Applied strain (μE)	Gage Output (mV/Vexc)
-1975.1	-5.807	452.8	1.662
-1469.8	-4.259	846.5	2.892
-997.4	-2.808	1154.9	3.871
-557.7	-1.469	1463.3	4.838
-216.5	-0.421	1771.7	5.808
85.3	0.524	2010.1	6.539

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: 003A

Calibration Date: OCT 08 2024





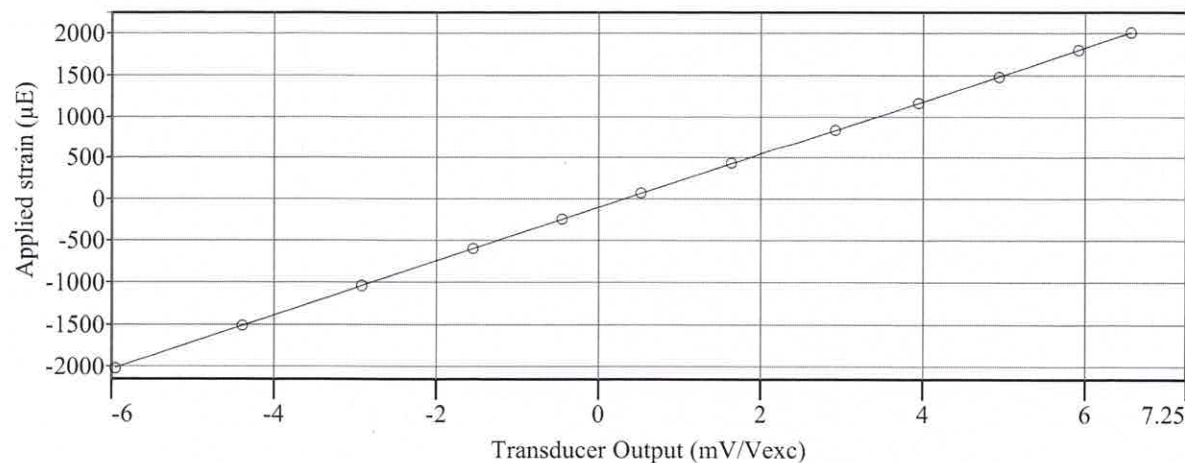
Certificate of Calibration

Pile Dynamics, Inc.
Transducer Model: PDI Strain Transducer
Serial Number: 004A
PDI Gage Factor: 92.9
Mean Linear Correlation Coefficient: 0.999991

Table 1: Representative Calibration Data

Applied strain (μE)	Gage Output (mV/Vexc)	Applied strain (μE)	Gage Output (mV/Vexc)
-2021.0	-5.954	433.1	1.635
-1509.2	-4.389	839.9	2.916
-1036.7	-2.916	1168.0	3.944
-597.1	-1.549	1482.9	4.934
-242.8	-0.450	1797.9	5.917
72.2	0.524	2007.9	6.563

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: 004A

Calibration Date: OCT 08 2024





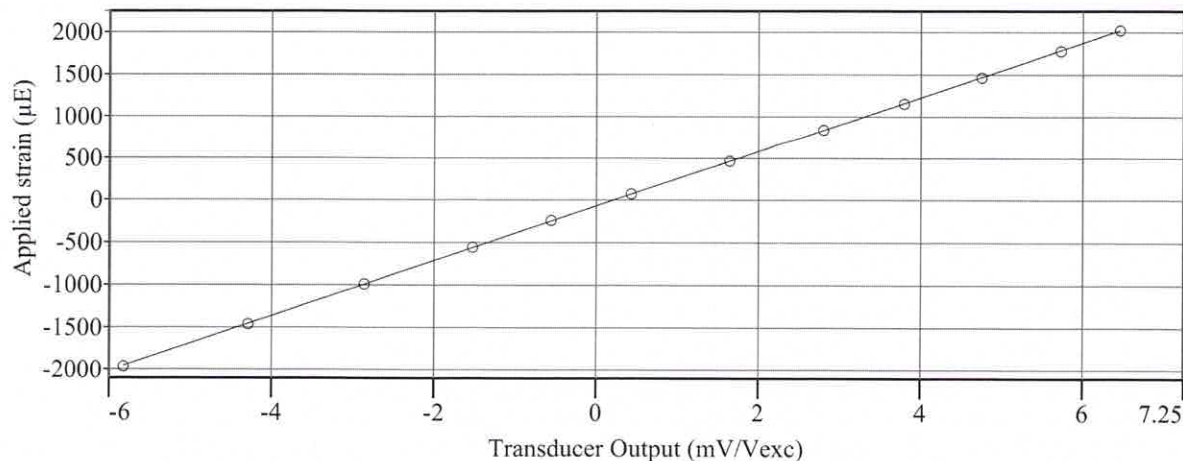
Certificate of Calibration

Pile Dynamics, Inc.
Transducer Model: PDI Strain Transducer
Serial Number: 006A
PDI Gage Factor: 93.5
Mean Linear Correlation Coefficient: 0.999979

Table 1: Representative Calibration Data

Applied strain (μE)	Gage Output (mV/Vexc)	Applied strain (μE)	Gage Output (mV/Vexc)
-1966.3	-5.825	465.9	1.640
-1463.3	-4.289	839.9	2.801
-990.8	-2.859	1154.9	3.796
-557.7	-1.527	1463.3	4.750
-242.8	-0.556	1778.2	5.729
72.2	0.430	2021.0	6.458

Calibration Curve

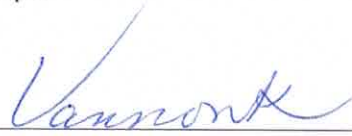


PDI Strain Transducer Calibration System (PDI STCS)

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: 006A

Calibration Date: OCT 08 2024





Certificate of Calibration

Pile Dynamics, Inc.

Transducer Model: PDI Strain Transducer

Serial Number: 007A

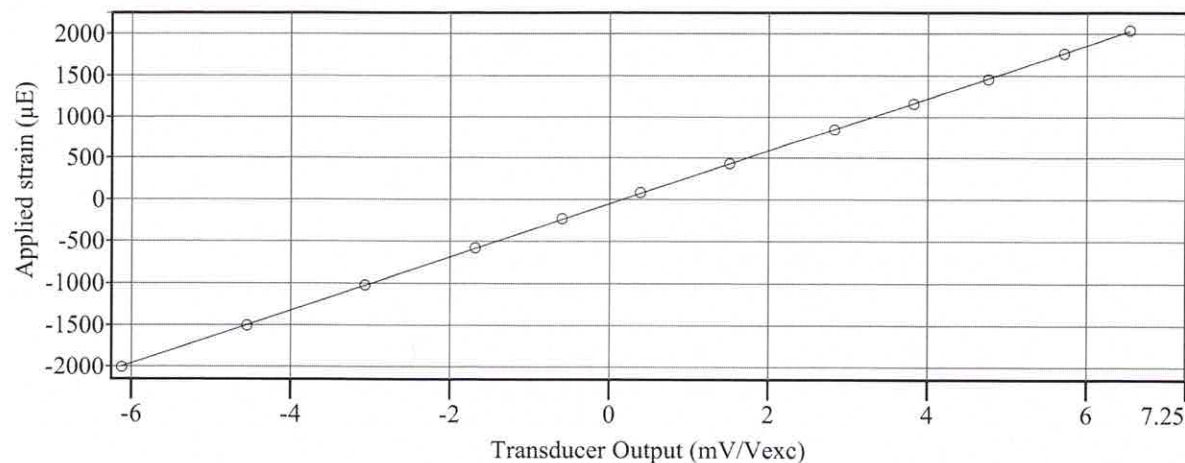
PDI Gage Factor: 92.0

Mean Linear Correlation Coefficient: 0.999966

Table 1: Representative Calibration Data

Applied strain (μE)	Gage Output (mV/Vexc)	Applied strain (μE)	Gage Output (mV/Vexc)
-2007.9	-6.120	433.1	1.509
-1502.6	-4.548	846.5	2.827
-1023.6	-3.066	1161.4	3.825
-577.4	-1.686	1456.7	4.760
-229.7	-0.592	1765.1	5.716
85.3	0.390	2040.7	6.536

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: 007A

Calibration Date: OCT 08 2024





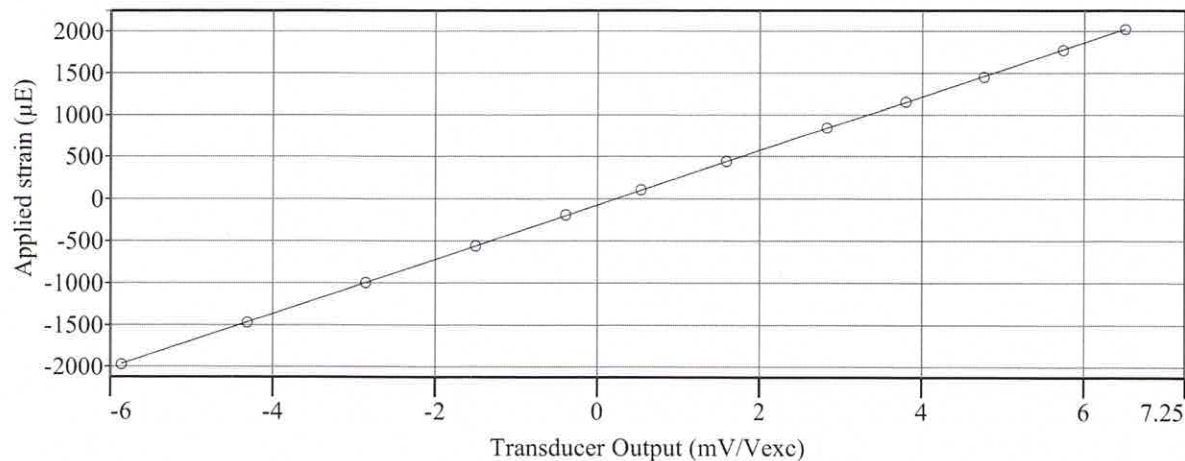
Certificate of Calibration

Pile Dynamics, Inc.
Transducer Model: PDI Strain Transducer
Serial Number: 008A
PDI Gage Factor: 93.2
Mean Linear Correlation Coefficient: 0.999979

Table 1: Representative Calibration Data

Applied strain (μE)	Gage Output (mV/Vexc)	Applied strain (μE)	Gage Output (mV/Vexc)
-1975.1	-5.865	439.6	1.587
-1469.8	-4.314	839.9	2.828
-997.4	-2.854	1154.9	3.801
-557.7	-1.502	1452.3	4.761
-190.3	-0.390	1771.7	5.740
105.0	0.537	2021.0	6.504

Calibration Curve

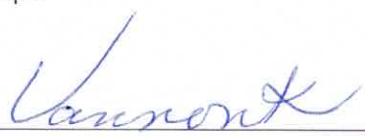


PDI Strain Transducer Calibration System (PDI STCS)

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: 008A

Calibration Date: OCT 08 2024





Certificate of Calibration

Pile Dynamics, Inc.

Transducer Model: PDI Strain Transducer

Serial Number: 009A

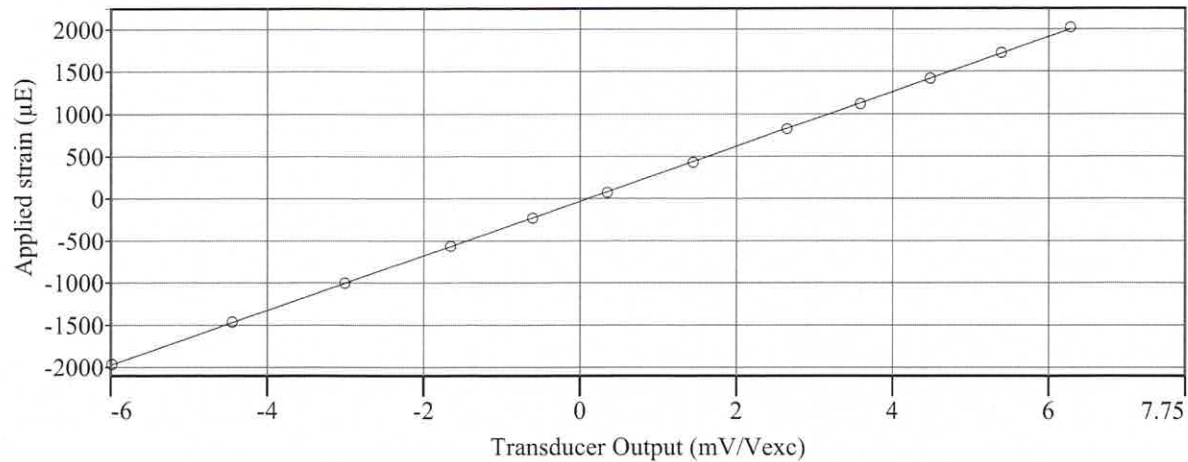
PDI Gage Factor: 93.5

Mean Linear Correlation Coefficient: 0.999951

Table 1: Representative Calibration Data

Applied strain (μE)	Gage Output (mV/Vexc)	Applied strain (μE)	Gage Output (mV/Vexc)
-1961.9	-5.988	426.5	1.445
-1463.3	-4.447	820.2	2.650
-1003.9	-3.007	1122.0	3.586
-564.3	-1.657	1417.3	4.480
-229.7	-0.606	1719.2	5.388
72.2	0.346	2021.0	6.275

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: 009A

Calibration Date: OCT 0 8 2024





Certificate of Calibration

Pile Dynamics, Inc.

Transducer Model: PDI Strain Transducer

Serial Number: 299A

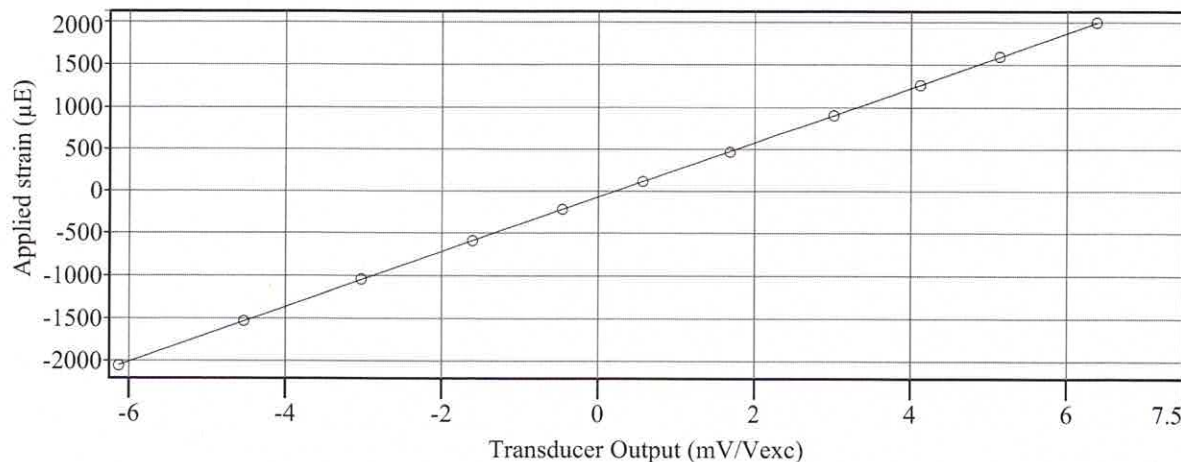
PDI Gage Factor: 93.4

Mean Linear Correlation Coefficient: 0.999991

Table 1: Representative Calibration Data

Applied strain (μE)	Gage Output (mV/Vexc)	Applied strain (μE)	Gage Output (mV/Vexc)
-2053.8	-6.129	465.9	1.682
-1528.9	-4.528	905.5	3.014
-1043.3	-3.027	1262.0	4.119
-590.6	-1.607	1594.5	5.134
-216.5	-0.457	1994.8	6.379
118.1	0.572		

Calibration Curve

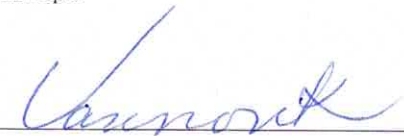


PDI Strain Transducer Calibration System (PDI STCS)

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: 299A

Calibration Date: OCT 0 8 2024





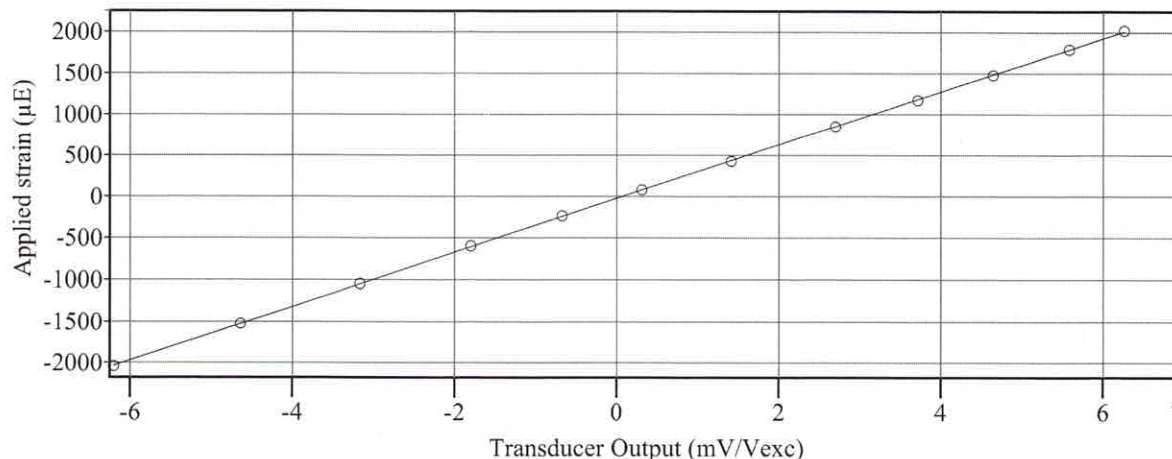
Certificate of Calibration

Pile Dynamics, Inc.
Transducer Model: PDI Strain Transducer
Serial Number: Z955
PDI Gage Factor: 93.7
Mean Linear Correlation Coefficient: 0.999971

Table 1: Representative Calibration Data

Applied strain (μE)	Gage Output (mV/Vexc)	Applied strain (μE)	Gage Output (mV/Vexc)
-2040.7	-6.201	426.5	1.412
-1522.3	-4.637	853.0	2.698
-1043.3	-3.163	1174.5	3.716
-597.1	-1.800	1476.4	4.644
-236.2	-0.675	1791.3	5.583
78.7	0.313	2021.0	6.261

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: Z955

Calibration Date: 10/8/2024 9:21:29 AM





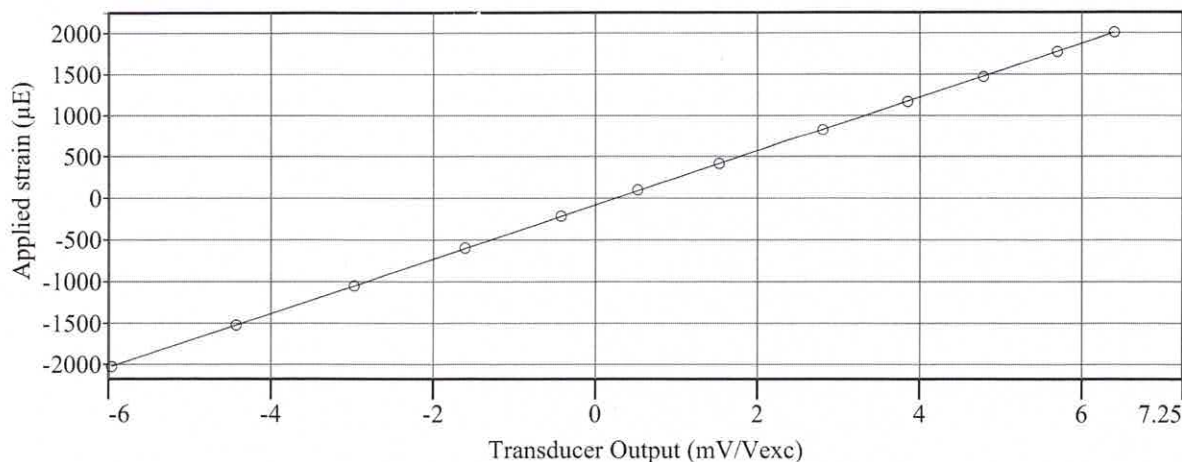
Certificate of Calibration

Pile Dynamics, Inc.
Transducer Model: PDI Strain Transducer
Serial Number: Z958
PDI Gage Factor: 94.0
Mean Linear Correlation Coefficient: 0.999983

Table 1: Representative Calibration Data

Applied strain (μE)	Gage Output (mV/Vexc)	Applied strain (μE)	Gage Output (mV/Vexc)
-2027.6	-5.962	413.4	1.523
-1522.3	-4.429	826.8	2.803
-1049.9	-2.972	1168.0	3.853
-597.1	-1.608	1469.8	4.784
-216.5	-0.423	1771.7	5.699
98.4	0.521	2007.9	6.401

Calibration Curve

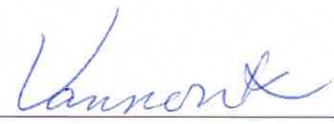


PDI Strain Transducer Calibration System (PDI STCS)

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: Z958

Calibration Date: 10/8/2024 9:26:37 AM



Certificate of Calibration Pile Dynamics, Inc.

Calibrated by Pile Dynamics, Inc.



Serial No: K14218 Temperature: 23.1 °C

Model: KICHER PR Humidity: 43%

Calibrated on: Channel 4 on 8G 5161 LE

PDA CALIBRATION FACTOR

332.6 mv/5000g

(66.5 μ v/g)

R²: 0.999917 [Chip programmed]

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

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

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

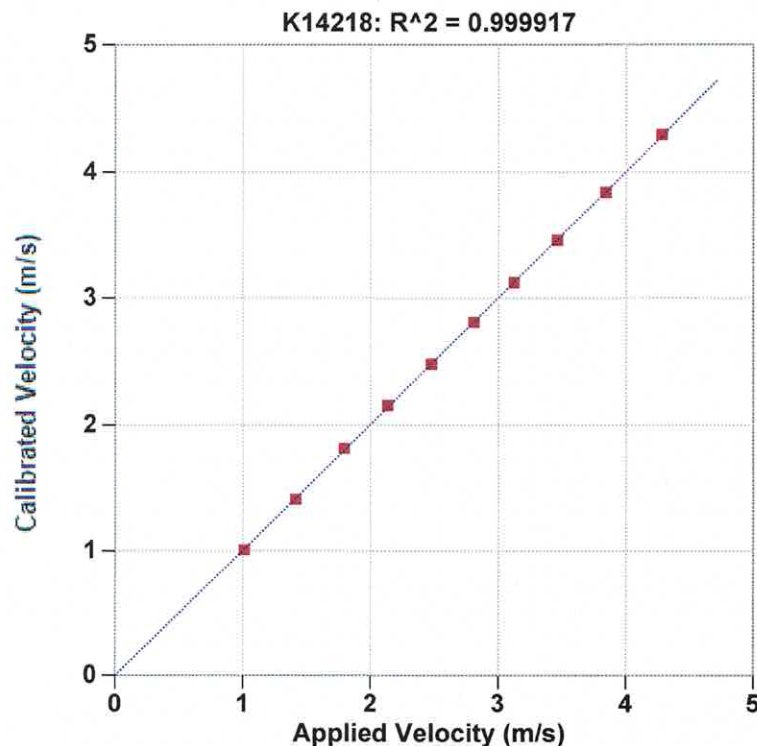
Operator: William Johnson

Signed

Calibration valid 2 years

OCT 08 2024

From: _____



Reference Velocity	S/N K14218 Velocity
m/s	m/s
1.016	1.010
1.419	1.411
1.796	1.813
2.141	2.154
2.482	2.479
2.813	2.809
3.130	3.124
3.467	3.459
3.847	3.842
4.287	4.297

Maximum Acceleration: 928 g's

Certificate of Calibration Pile Dynamics, Inc.

Calibrated by Pile Dynamics, Inc.



Serial No: K14217 Temperature: 23.0 °C

Model: KICHER PR Humidity: 44%

Calibrated on: Channel 4 on 8G 5161 LE

PDA CALIBRATION FACTOR

360.7 mv/5000g

(72.1 μ v/g)

R²: 0.999916 [Chip programmed]

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

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

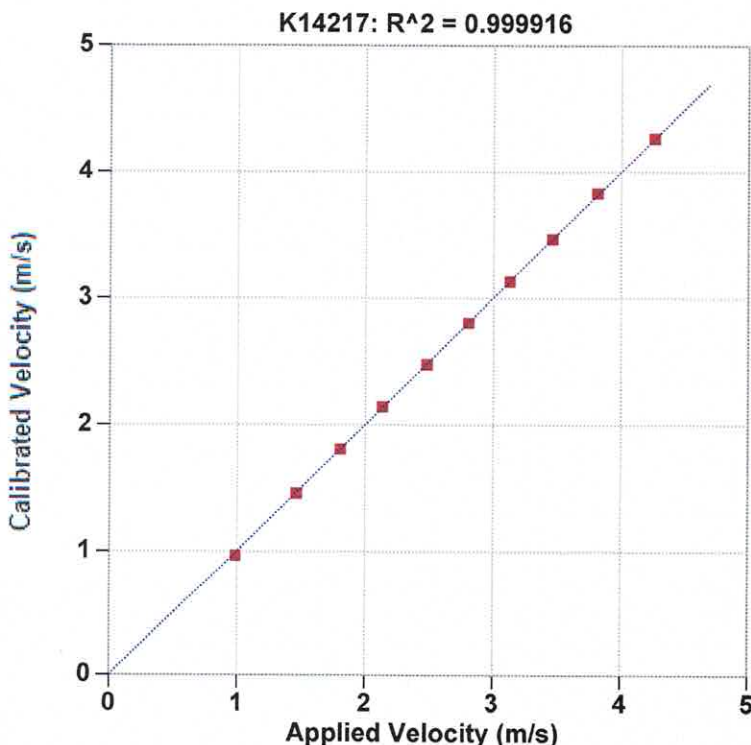
Operator: William Johnson

Signed

Calibration valid 2 years

From: OCT 08 2024

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



Reference Velocity	S/N K14217 Velocity
m/s	m/s
0.990	0.968
1.468	1.461
1.809	1.808
2.141	2.147
2.487	2.480
2.811	2.808
3.136	3.132
3.468	3.466
3.819	3.833
4.266	4.269

Maximum Acceleration: 923 g's

Certificate of Calibration
Pile Dynamics, Inc.

Calibrated by Pile Dynamics, Inc.



Serial No: K14216 Temperature: 23.3 °C
Model: KICHER PR Humidity: 43%
Calibrated on: Channel 4 on 8G 5161 LE

PDA CALIBRATION FACTOR

354.0 mv/5000g
(70.8 μv/g)
R^2: 0.999943 [Chip programmed]

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

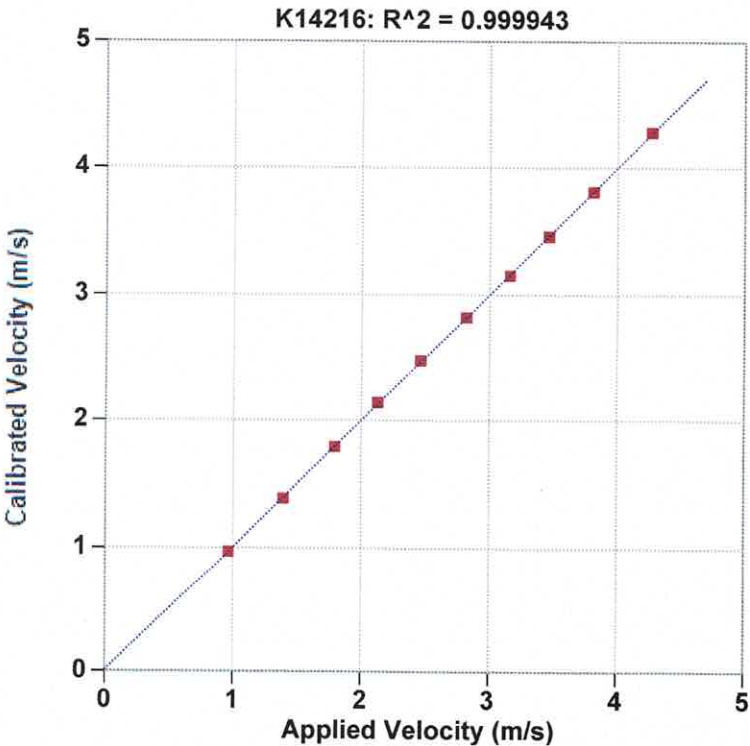
Operator: William Johnson

William Johnson
Signed

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

Calibration valid 2 years

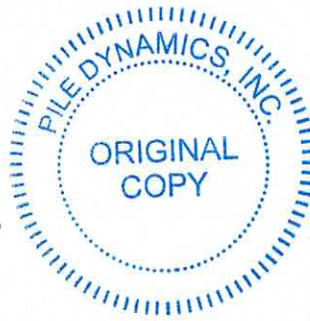
From: OCT 08 2024



Reference Velocity	S/N K14216 Velocity
m/s	m/s
0.967	0.969
1.396	1.387
1.798	1.790
2.132	2.143
2.466	2.477
2.824	2.824
3.164	3.154
3.467	3.463
3.818	3.815
4.274	4.282
Maximum Acceleration: 927 g's	

Certificate of Calibration Pile Dynamics, Inc.

Calibrated by Pile Dynamics, Inc.



Serial No: K14214 Temperature: 23.0 °C

Model: KICHER PR Humidity: 44%

Calibrated on: Channel 3 on 8G 5161 LE

PDA CALIBRATION FACTOR

343.0 mv/5000g

(68.6 μ v/g)

R²: 0.999962 [Chip programmed]

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

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

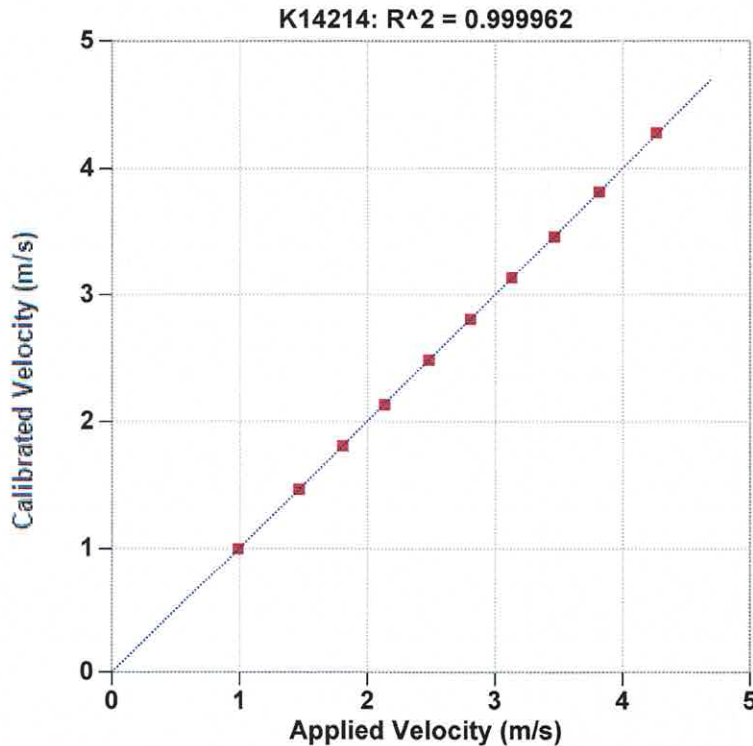
Reference accelerometer calibrations are traceable to
the United States National Institute of Standards and
Technology (NIST).

Operator: William Johnson


Signed

Calibration valid 2 years

From: OCT 08 2024



Reference Velocity	S/N K14214 Velocity
m/s	m/s
0.990	0.997
1.468	1.470
1.809	1.809
2.141	2.133
2.487	2.484
2.811	2.807
3.136	3.137
3.468	3.461
3.819	3.815
4.266	4.279

Maximum Acceleration: 923 g's

Certificate of Calibration

Pile Dynamics, Inc.

Calibrated by Pile Dynamics, Inc.



Serial No: K14213 Temperature: 23.1 °C

Model: KICHER PR Humidity: 43%

Calibrated on: Channel 3 on 8G 5161 LE

PDA CALIBRATION FACTOR

295.2 mv/5000g

(59.0 $\mu\text{v/g}$)

R²: 0.999939 [Chip programmed]

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

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

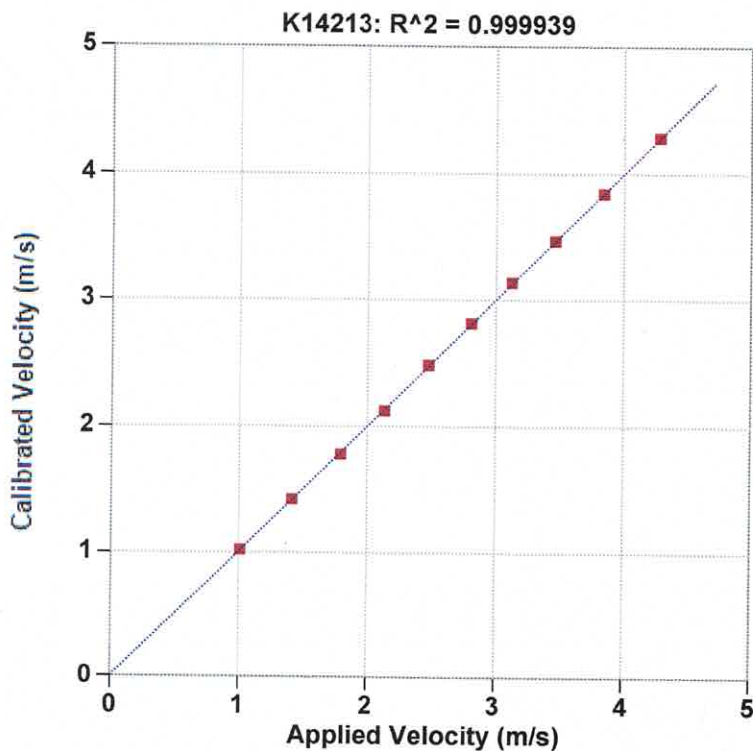
Reference accelerometer calibrations are traceable to the United States National Institute of Standards and Technology (NIST).

Operator: William Johnson


Signed

Calibration valid 2 years

From: **OCT 08 2024**



Reference Velocity	S/N K14213 Velocity
m/s	m/s
1.016	1.021
1.419	1.424
1.796	1.780
2.141	2.127
2.482	2.489
2.813	2.816
3.130	3.138
3.467	3.466
3.847	3.844
4.287	4.289

Maximum Acceleration: 928 g's

Certificate of Calibration Pile Dynamics, Inc.

Calibrated by Pile Dynamics, Inc.



Serial No: K14212 Temperature: 23.1 °C

Model: KICHER PR Humidity: 43%

Calibrated on: Channel 3 on 8G 5161 LE

PDA CALIBRATION FACTOR

344.8 mv/5000g

(69.0 $\mu\text{v/g}$)

R²: 0.999981 [Chip programmed]

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

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

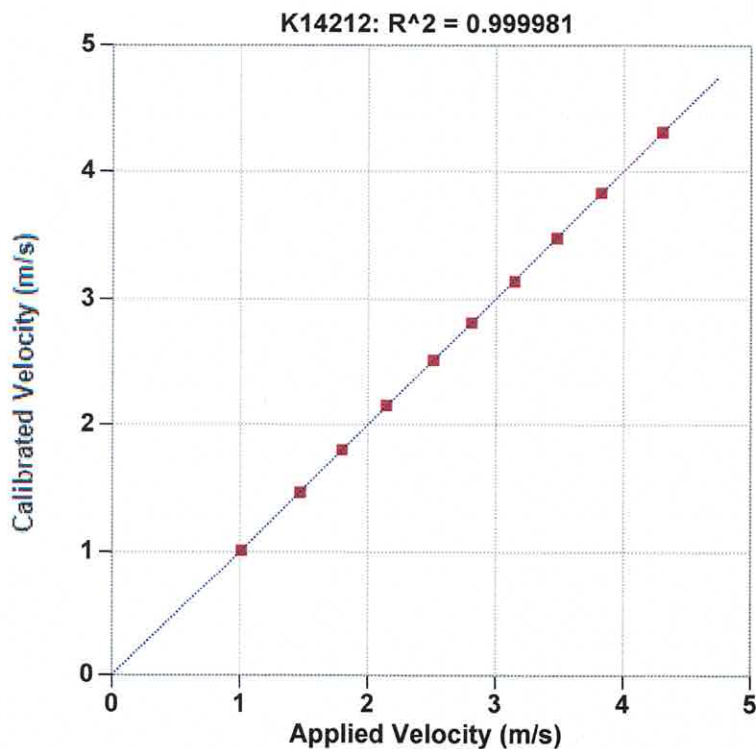
Reference accelerometer calibrations are traceable to
the United States National Institute of Standards and
Technology (NIST).

Operator: William Johnson

Signed

Calibration valid 2 years
OCT 08 2024

From: _____



Reference Velocity	S/N K14212 Velocity
m/s	m/s
1.015	1.013
1.476	1.471
1.802	1.803
2.151	2.158
2.516	2.516
2.813	2.817
3.152	3.143
3.482	3.479
3.830	3.832
4.308	4.311

Maximum Acceleration: 931 g's

Certificate of Calibration Pile Dynamics, Inc.

Calibrated by Pile Dynamics, Inc.



Serial No: K14211 Temperature: 23.3 °C

Model: KICHER PR Humidity: 43%

Calibrated on: Channel 3 on 8G 5161 LE

PDA CALIBRATION FACTOR

370.7 mv/5000g

(74.1 μ v/g)

R²: 0.999967 [Chip programmed]

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

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

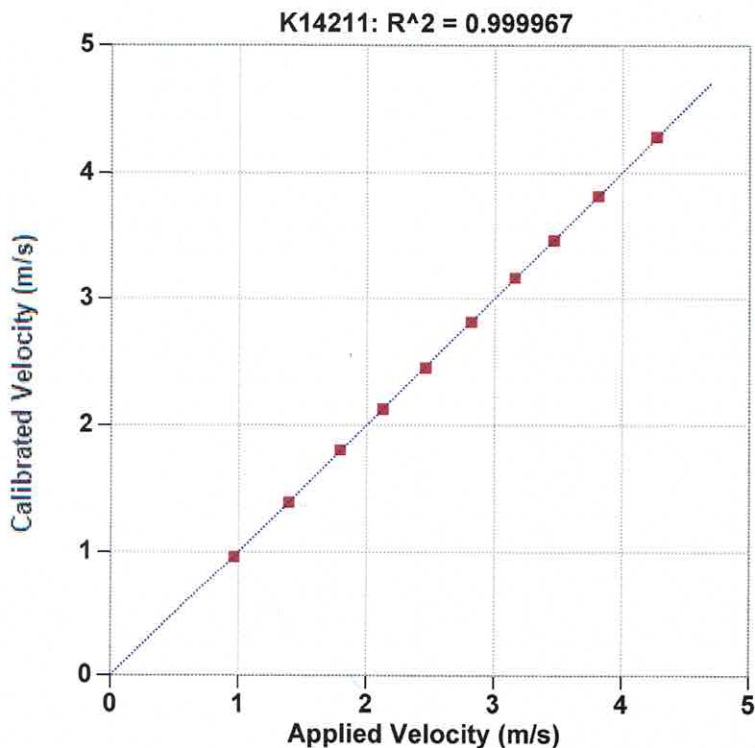
Reference accelerometer calibrations are traceable to
the United States National Institute of Standards and
Technology (NIST).

Operator: William Johnson

Signed

Calibration valid 2 years

From: OCT 08 2024



Reference Velocity	S/N K14211 Velocity
m/s	m/s
0.967	0.963
1.396	1.397
1.798	1.804
2.132	2.129
2.466	2.454
2.824	2.817
3.164	3.168
3.467	3.467
3.818	3.818
4.274	4.282
Maximum Acceleration: 927 g's	

Certificate of Calibration

Pile Dynamics, Inc.

Calibrated by Pile Dynamics, Inc.



Serial No: LW503309 Temperature: 24.0 °C

Model: PE Humidity: 46%

Calibrated on: Channel 4 on 8G 5161 LE

PDA CALIBRATION FACTOR

10.0 g's/volt

R²: 0.999934 [Chip programmed]

Ref Acc 1: LW503313! Cal on: 31Jan2024
10 g's/volt

Ref Acc 2: LW503311! Cal on: 31Jan2024
10 g's/volt

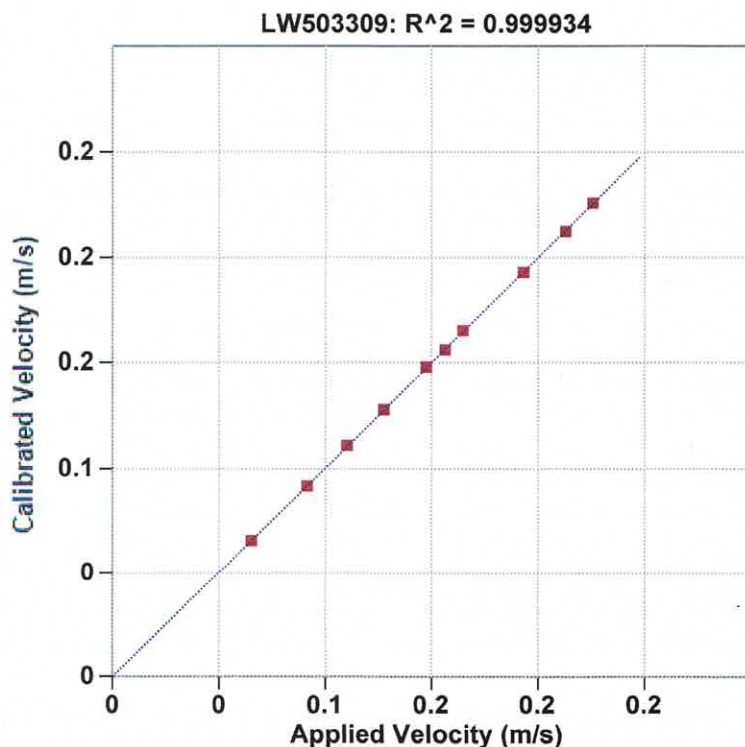
Operator: William Johnson

Signed

Calibration valid 2 years

From: OCT 08 2024

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



Reference Velocity	S/N LW503309 Velocity
m/s	m/s
0.066	0.066
0.092	0.092
0.110	0.111
0.128	0.128
0.148	0.148
0.156	0.156
0.165	0.165
0.193	0.193
0.213	0.212
0.226	0.226
Maximum Acceleration: 24 g's	



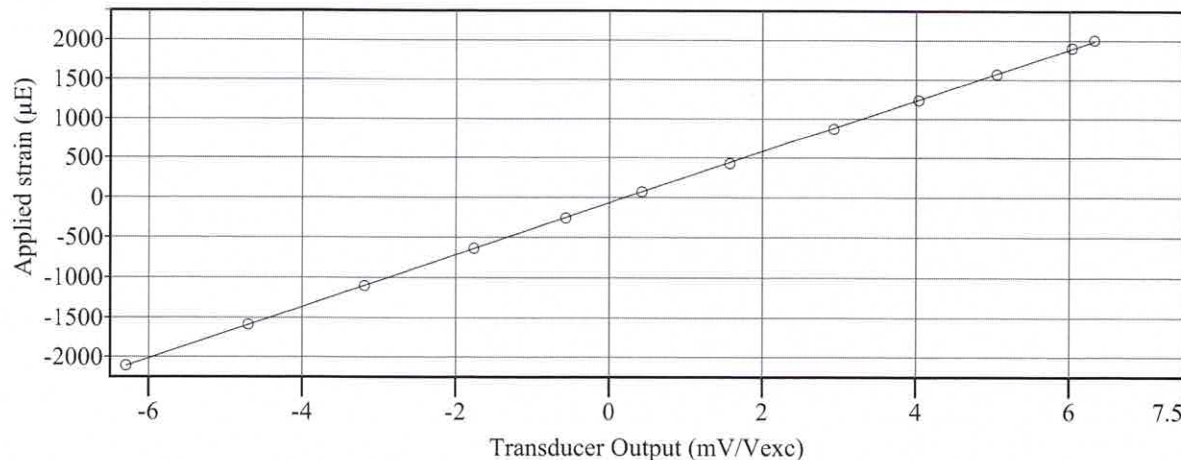
Certificate of Calibration

Pile Dynamics, Inc.
 Transducer Model: PDI Strain Transducer
 Serial Number: Y665
 PDI Gage Factor: 93.9
 Mean Linear Correlation Coefficient: 0.999957

Table 1: Representative Calibration Data

Applied strain (μE)	Gage Output (mV/Vexc)	Applied strain (μE)	Gage Output (mV/Vexc)
-2106.3	-6.294	426.5	1.570
-1587.9	-4.701	872.7	2.926
-1102.4	-3.186	1240.2	4.032
-636.5	-1.761	1568.2	5.052
-255.9	-0.564	1902.9	6.032
72.2	0.430	2003.5	6.325

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: Y665

Calibration Date: _____

OCT 08 2024





Certificate of Calibration

Pile Dynamics, Inc.

Transducer Model: PDI Strain Transducer

Serial Number: Y664

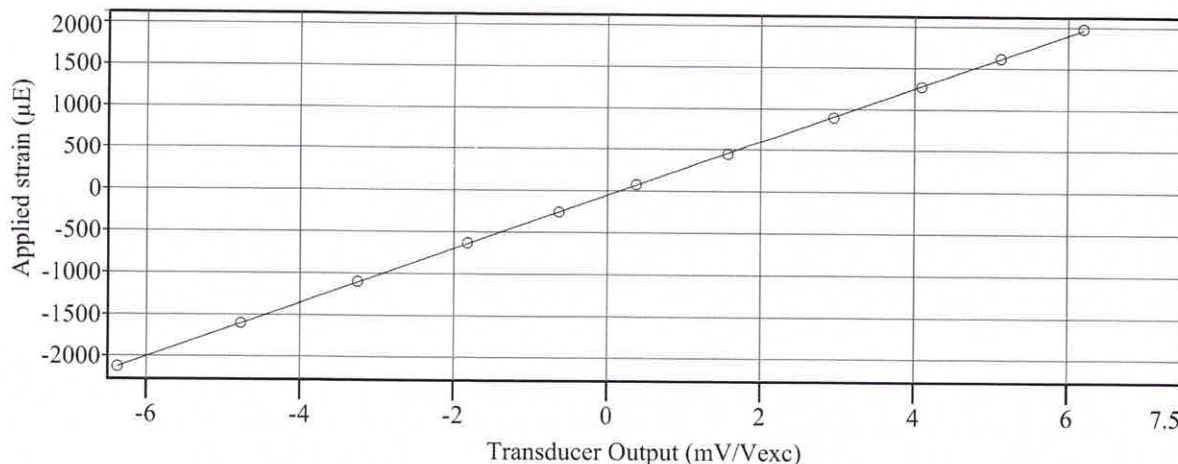
PDI Gage Factor: 94.1

Mean Linear Correlation Coefficient: 0.999963

Table 1: Representative Calibration Data

Applied strain (μE)	Gage Output (mV/Vexc)	Applied strain (μE)	Gage Output (mV/Vexc)
-2128.2	-6.375	446.2	1.564
-1601.0	-4.765	899.0	2.947
-1102.4	-3.247	1273.0	4.091
-636.5	-1.819	1620.7	5.121
-255.9	-0.631	1981.6	6.199
78.7	0.377		

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: Y664

Calibration Date: _____

OCT 08 2024





Certificate of Calibration

Pile Dynamics, Inc.

Transducer Model: PDI Strain Transducer

Serial Number: Y663

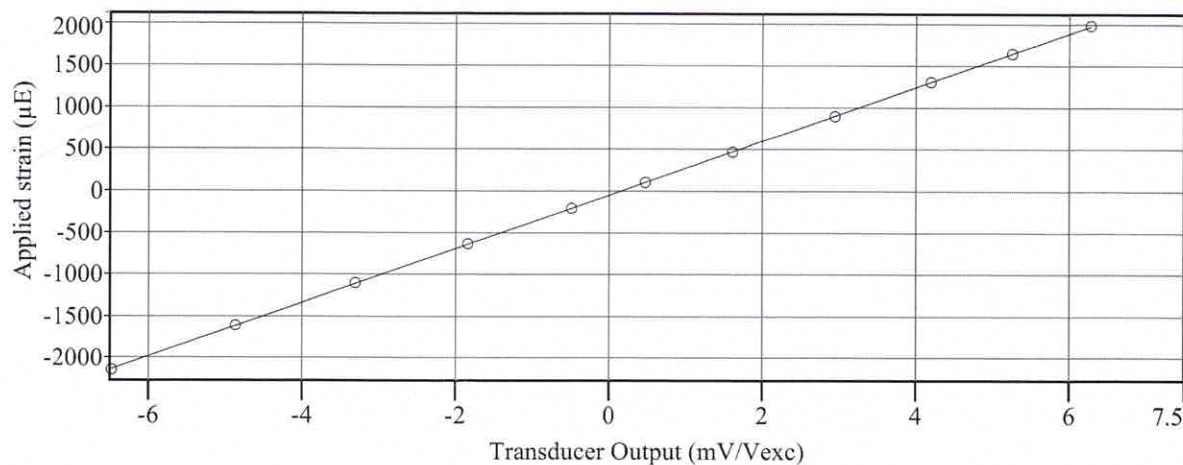
PDI Gage Factor: 93.3

Mean Linear Correlation Coefficient: 0.999984

Table 1: Representative Calibration Data

Applied strain (μE)	Gage Output (mV/Vexc)	Applied strain (μE)	Gage Output (mV/Vexc)
-2145.7	-6.478	465.9	1.606
-1614.2	-4.862	899.0	2.945
-1104.5	-3.301	1305.8	4.196
-636.5	-1.838	1647.0	5.253
-203.4	-0.488	1988.2	6.277
105.0	0.476		

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: Y663

OCT 08 2024

Calibration Date: _____





Certificate of Calibration

Pile Dynamics, Inc.

Transducer Model: PDI Strain Transducer

Serial Number: Y662

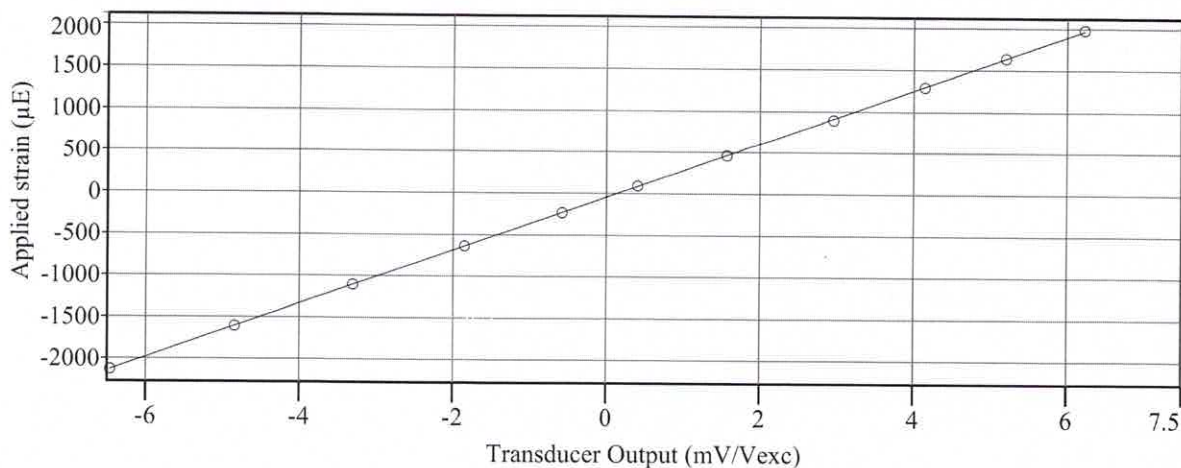
PDI Gage Factor: 93.4

Mean Linear Correlation Coefficient: 0.999979

Table 1: Representative Calibration Data

Applied strain (μE)	Gage Output (mV/Vexc)	Applied strain (μE)	Gage Output (mV/Vexc)
-2132.5	-6.461	459.3	1.565
-1607.6	-4.839	899.0	2.955
-1108.9	-3.299	1292.7	4.147
-638.7	-1.847	1640.4	5.199
-229.7	-0.581	1981.6	6.226
91.9	0.406		

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: Y662

Calibration Date: _____

OCT 08 2024





Certificate of Calibration

Pile Dynamics, Inc.

Transducer Model: PDI Strain Transducer

Serial Number: Y661

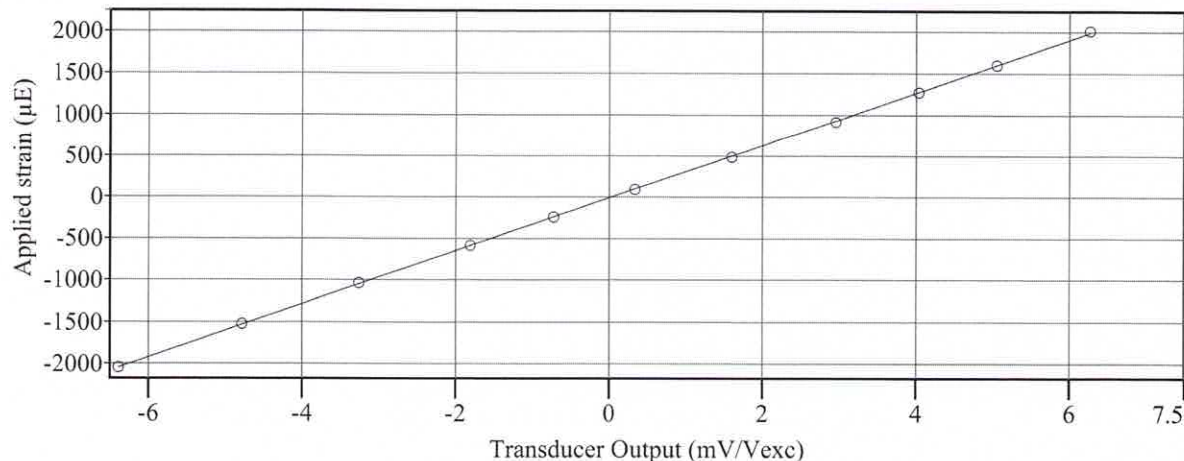
PDI Gage Factor: 92.1

Mean Linear Correlation Coefficient: 0.999934

Table 1: Representative Calibration Data

Applied strain (μE)	Gage Output (mV/Vexc)	Applied strain (μE)	Gage Output (mV/Vexc)
-2047.2	-6.390	485.6	1.593
-1522.3	-4.778	918.6	2.953
-1036.7	-3.256	1273.0	4.036
-584.0	-1.809	1601.0	5.049
-242.8	-0.722	2010.1	6.265
91.9	0.336		

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: Y661

OCT 08 2024

Calibration Date: _____





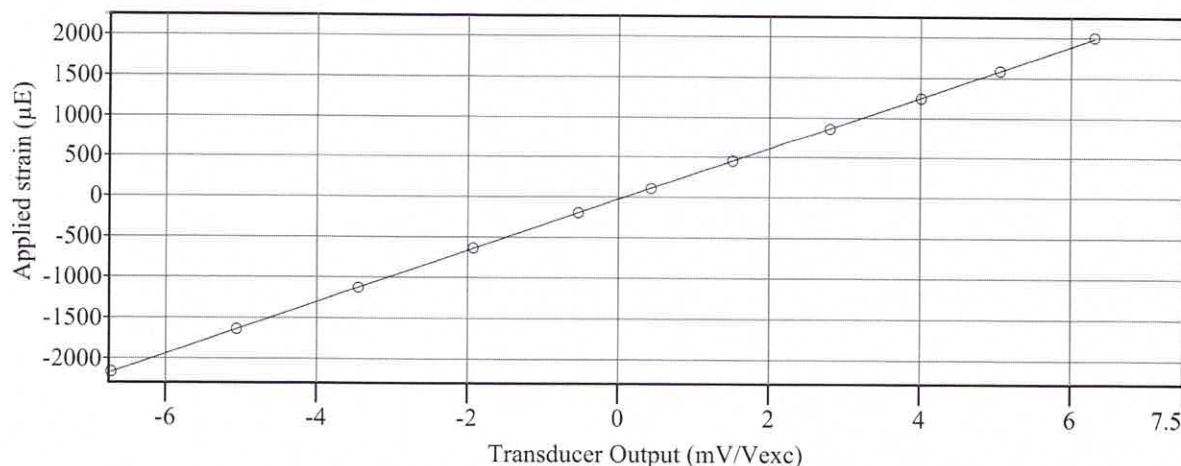
Certificate of Calibration

Pile Dynamics, Inc.
 Transducer Model: PDI Strain Transducer
 Serial Number: Y660
 PDI Gage Factor: 92.2
 Mean Linear Correlation Coefficient: 0.999975

Table 1: Representative Calibration Data

Applied strain (μE)	Gage Output (mV/Vexc)	Applied strain (μE)	Gage Output (mV/Vexc)
-2165.4	-6.720	452.8	1.511
-1640.4	-5.056	861.8	2.803
-1128.6	-3.445	1246.7	4.010
-636.5	-1.921	1585.7	5.054
-196.9	-0.532	2001.3	6.305
105.0	0.432		

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: Y660

OCT 08 2024

Calibration Date: _____





Certificate of Calibration

Pile Dynamics, Inc.

Transducer Model: PDI Strain Transducer

Serial Number: Y659

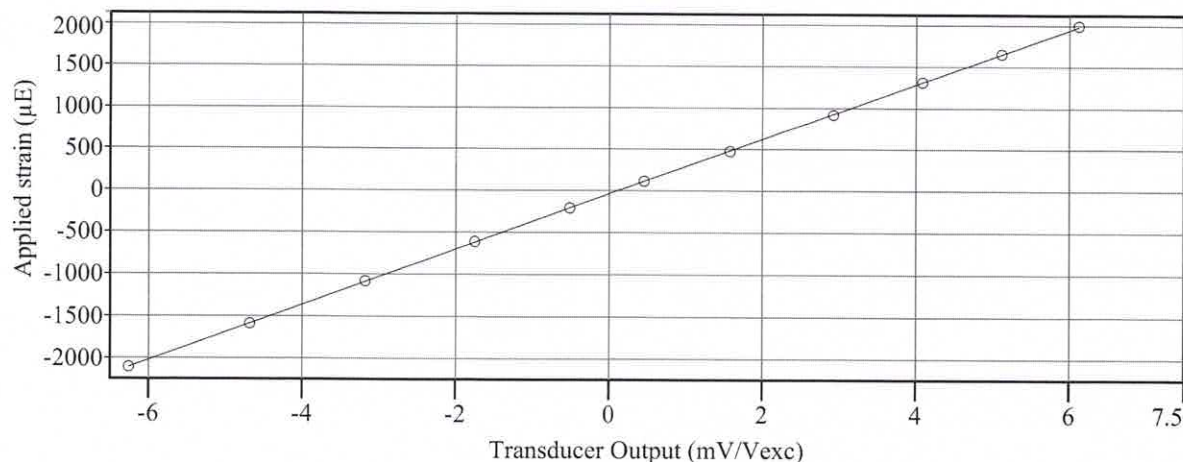
PDI Gage Factor: 95.5

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)
-2106.3	-6.257	472.4	1.574
-1587.9	-4.679	918.6	2.921
-1082.7	-3.175	1312.3	4.085
-610.2	-1.749	1653.5	5.114
-210.0	-0.513	1994.8	6.121
111.5	0.460		

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: Y659

Calibration Date: _____

OCT 08 2024





Certificate of Calibration

Pile Dynamics, Inc.

Transducer Model: PDI Strain Transducer

Serial Number: Y658

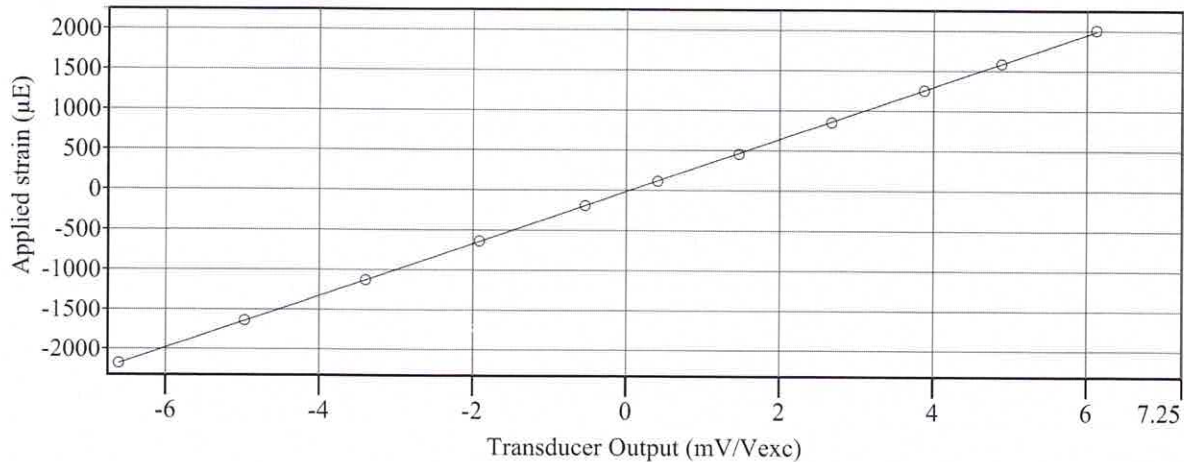
PDI Gage Factor: 94.7

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)
-2178.5	-6.608	452.8	1.465
-1640.4	-4.968	853.0	2.671
-1128.6	-3.394	1253.3	3.880
-636.5	-1.913	1587.9	4.885
-190.3	-0.537	2007.9	6.119
111.5	0.409		

Calibration Curve

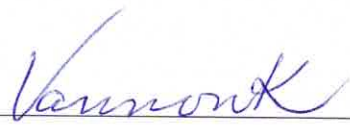


PDI Strain Transducer Calibration System (PDI STCS)

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: Y658

OCT 08 2024

Calibration Date: _____





Certificate of Calibration

Pile Dynamics, Inc.

Transducer Model: PDI Strain Transducer

Serial Number: Y657

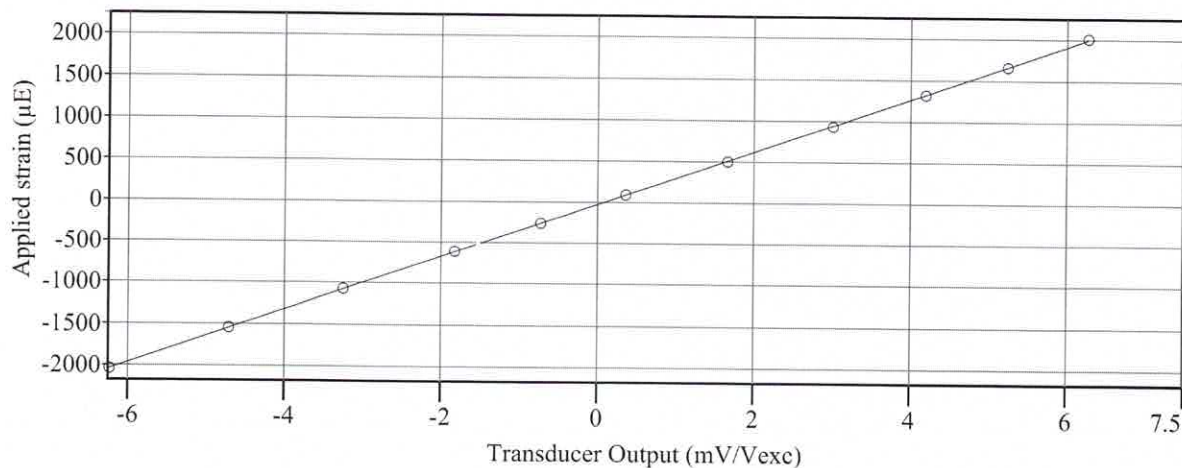
PDI Gage Factor: 93.1

Mean Linear Correlation Coefficient: 0.999973

Table 1: Representative Calibration Data

Applied strain (μE)	Gage Output (mV/Vexc)	Applied strain (μE)	Gage Output (mV/Vexc)
-2040.7	-6.233	498.7	1.659
-1542.0	-4.706	931.8	3.009
-1069.6	-3.243	1318.9	4.194
-610.2	-1.825	1660.1	5.242
-262.5	-0.726	2007.9	6.273
91.9	0.361		

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: Y657

Calibration Date: OCT 08 2024





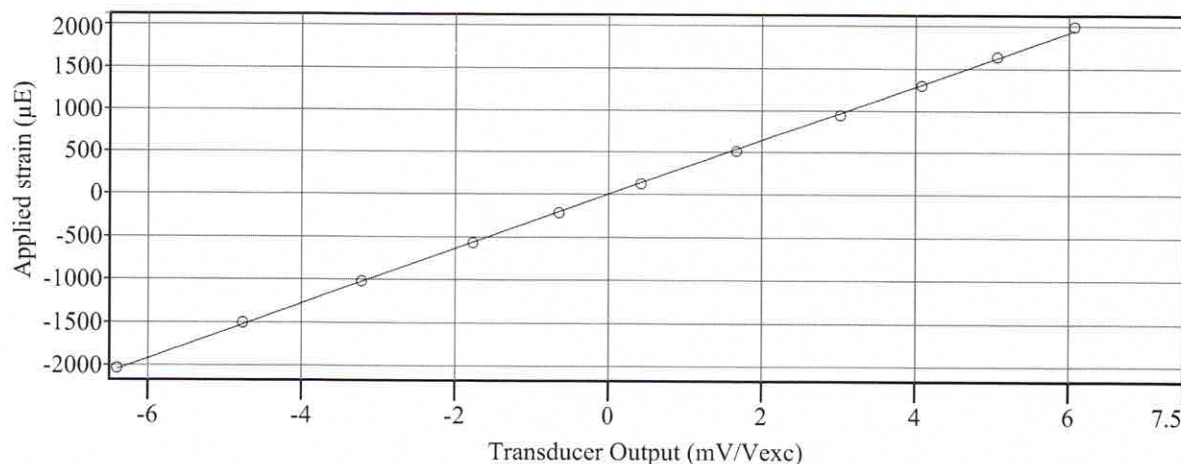
Certificate of Calibration

Pile Dynamics, Inc.
Transducer Model: PDI Strain Transducer
Serial Number: X086
PDI Gage Factor: 92.6
Mean Linear Correlation Coefficient: 0.999714

Table 1: Representative Calibration Data

Applied strain (μE)	Gage Output (mV/Vexc)	Applied strain (μE)	Gage Output (mV/Vexc)
-2034.1	-6.403	511.8	1.664
-1502.6	-4.763	944.9	3.019
-1023.6	-3.215	1299.2	4.079
-570.9	-1.764	1640.4	5.062
-216.5	-0.644	1994.8	6.069
124.7	0.424		

Calibration Curve

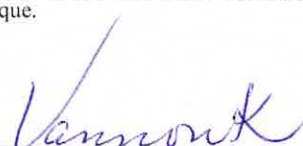


PDI Strain Transducer Calibration System (PDI STCS)

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: X086

OCT 08 2024

Calibration Date: _____





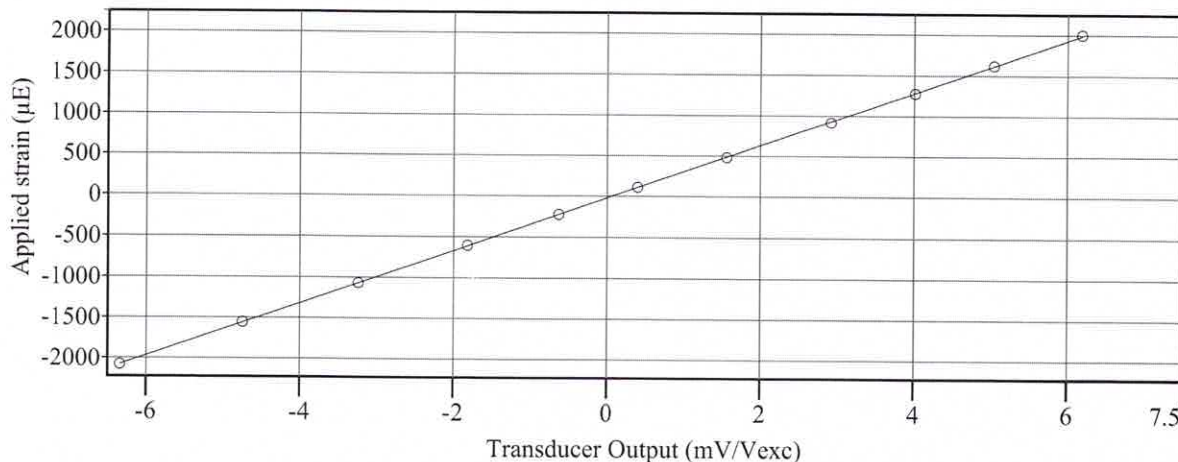
Certificate of Calibration

Pile Dynamics, Inc.
Transducer Model: PDI Strain Transducer
Serial Number: X085
PDI Gage Factor: 93.8
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)
-2080.1	-6.342	479.0	1.556
-1555.1	-4.741	912.1	2.917
-1069.6	-3.236	1279.5	4.015
-603.7	-1.814	1618.5	5.037
-223.1	-0.627	2001.3	6.188
111.5	0.402		

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: X085

Calibration Date: OCTO 8 2024





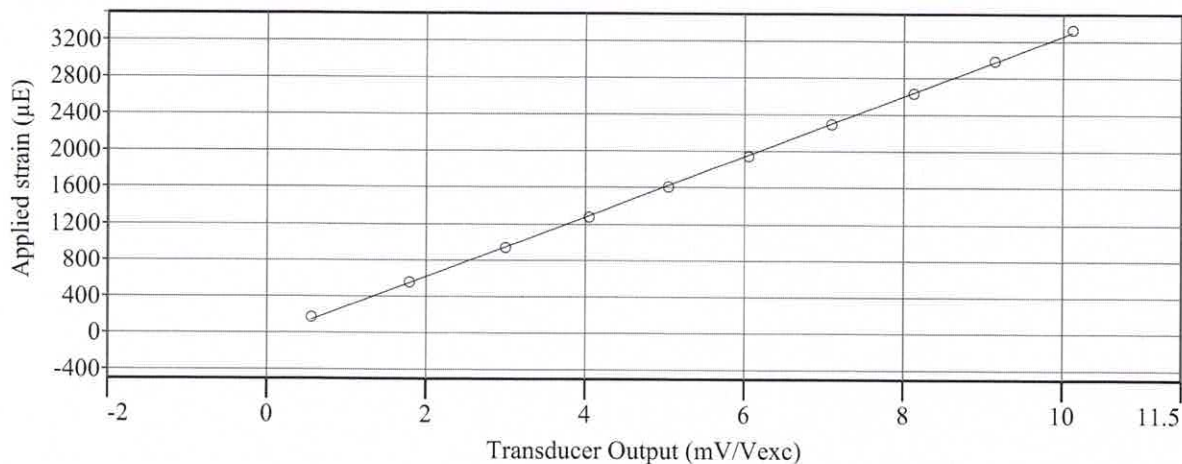
Certificate of Calibration

Pile Dynamics, Inc.
Transducer Model: PDI Strain Transducer
Serial Number: X084
PDI Gage Factor: 95.3
Mean Linear Correlation Coefficient: 0.999736

Table 1: Representative Calibration Data

Applied strain (μE)	Gage Output (mV/Vexc)	Applied strain (μE)	Gage Output (mV/Vexc)
170.6	0.560	1942.3	6.054
557.7	1.791	2290.0	7.094
942.7	3.001	2631.2	8.127
1279.5	4.047	2985.6	9.143
1605.4	5.043	3326.8	10.123

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: X084

Calibration Date: OCT 08 2024



Certificate of Calibration
Pile Dynamics, Inc.

Calibrated by Pile Dynamics, Inc.



Serial No: LW509295 Temperature: 23.5 °C
Model: PE Humidity: 32%
Calibrated on: Channel 4 on 8G 5161 LE

PDA CALIBRATION FACTOR

9.9 g's/volt

R^2: 0.999977 [Chip programmed]

Ref Acc 1: LW503311! Cal on: 31Jan2024
10 g's/volt
Ref Acc 2: LW503313! Cal on: 31Jan2024
10 g's/volt

Operator: William Johnson

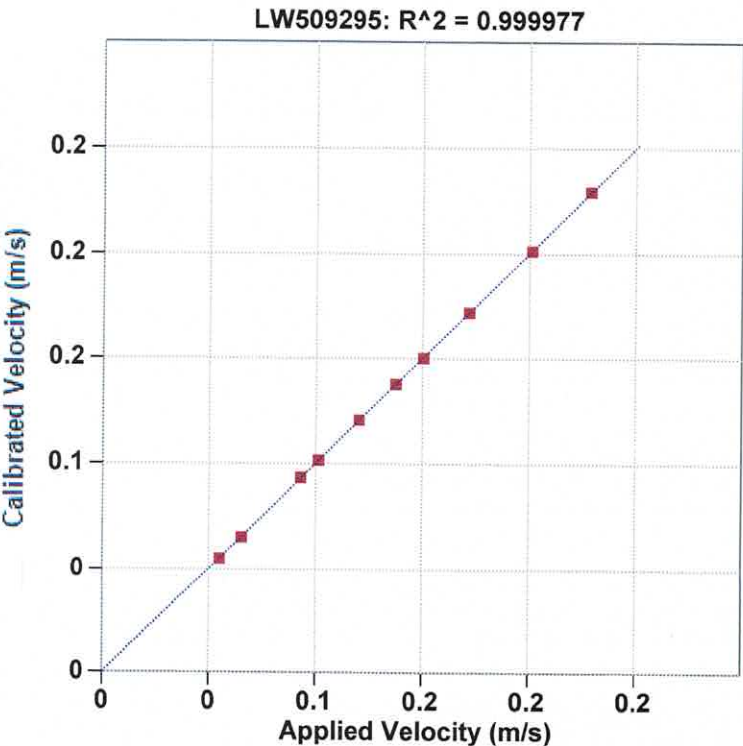
William Johnson

Signed

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

Calibration valid 2 years

From: OCT 10 2024



Reference Velocity	S/N LW509295 Velocity
m/s	m/s
0.055	0.055
0.065	0.065
0.093	0.093
0.101	0.102
0.120	0.120
0.138	0.138
0.151	0.150
0.172	0.172
0.201	0.201
0.229	0.229
Maximum Acceleration: 25 g's	

Certificate of Calibration Pile Dynamics, Inc.

Calibrated by Pile Dynamics, Inc.



Serial No: K14219 Temperature: 22.8 °C

Model: KICHER PR Humidity: 44%

Calibrated on: Channel 3 on 8G 5161 LE

PDA CALIBRATION FACTOR

313.2 mv/5000g

(62.6 μ v/g)

R²: 0.999986 [Chip programmed]

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

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

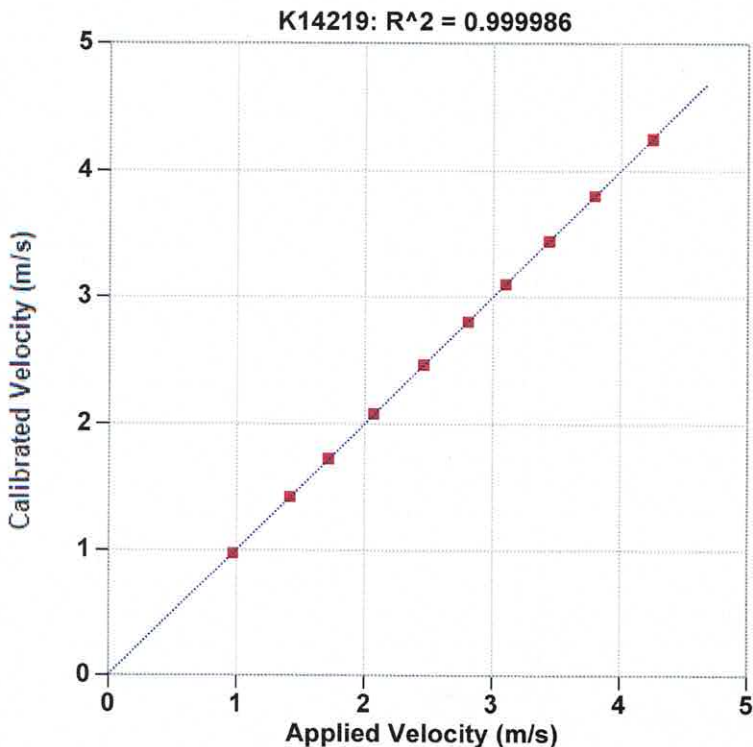
Operator: William Johnson

Signed

Calibration valid 2 years

From: ~~OCT 11 2024~~

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



Reference Velocity	S/N K14219 Velocity
m/s	m/s
0.976	0.974
1.421	1.424
1.720	1.725
2.074	2.079
2.464	2.466
2.811	2.806
3.104	3.103
3.447	3.445
3.799	3.803
4.254	4.250

Maximum Acceleration: 921 g's

Certificate of Calibration
Pile Dynamics, Inc.

Calibrated by Pile Dynamics, Inc.



Serial No: K14220 Temperature: 22.8 °C
Model: KICHER PR Humidity: 44%
Calibrated on: Channel 4 on 8G 5161 LE

PDA CALIBRATION FACTOR

343.7 mv/5000g
(68.7 μv/g)
R^2: 0.999974 [Chip programmed]

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

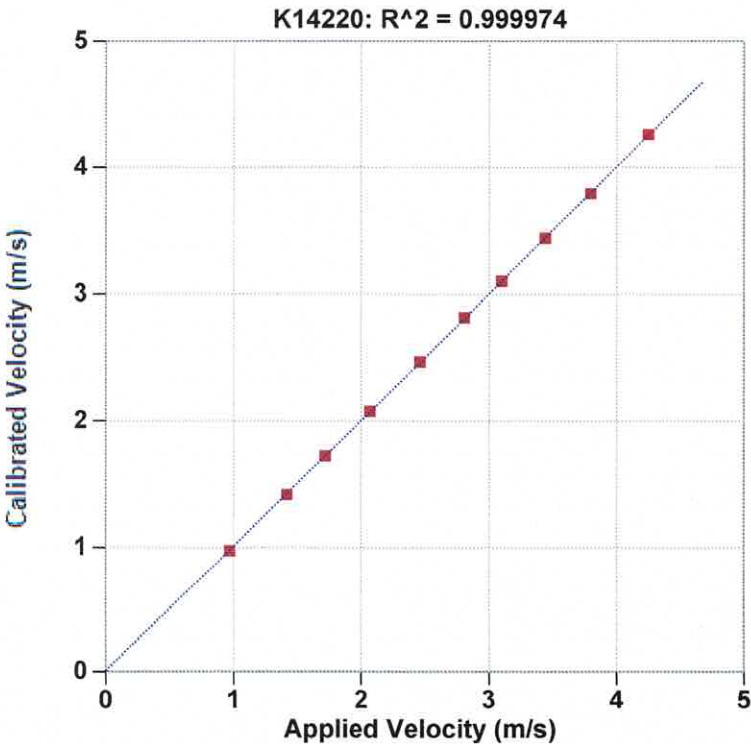
Operator: William Johnson

Signed

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

Calibration valid 2 years

From OCT 11 2024



Reference Velocity	S/N K14220 Velocity
m/s	m/s
0.976	0.972
1.421	1.414
1.720	1.720
2.074	2.078
2.464	2.469
2.811	2.818
3.104	3.103
3.447	3.440
3.799	3.792
4.254	4.261

Maximum Acceleration: 921 g's