

Certificate of Calibration Pile Dynamics, Inc.

Calibrated by Pile Dynamics, Inc.




Serial No: LW503298 Temperature: 23.8 °C
 Model: PIT ACC Humidity: 42%
 Calibrated on: Channel 4 on 8G 5161 LE

PDA CALIBRATION FACTOR
9.3 g's/volt
 R²: 0.999982 [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

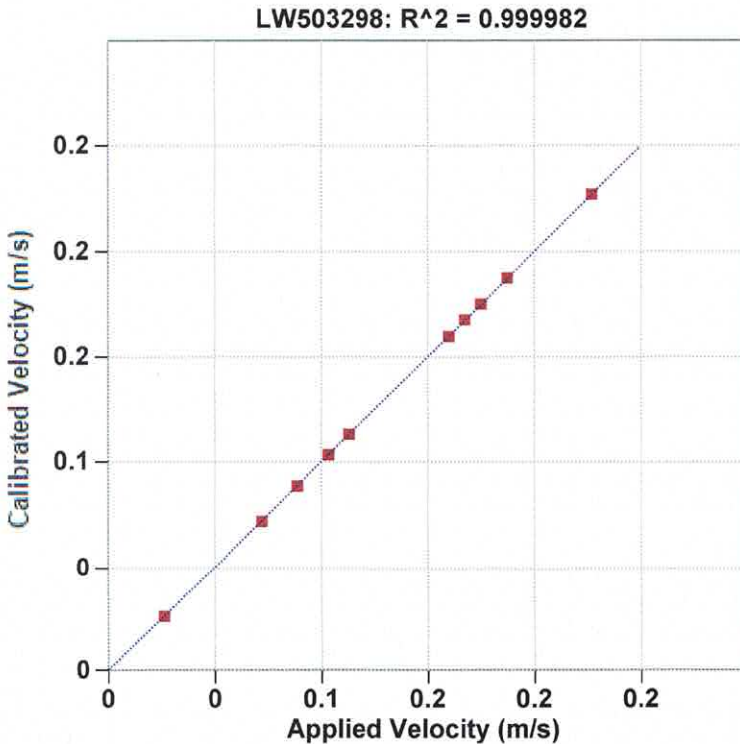


Signed

Calibration valid 2 years

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

From:
AUG 29 2024



Reference Velocity	S/N LW503298 Velocity
m/s	m/s
0.026	0.026
0.072	0.072
0.089	0.089
0.104	0.103
0.113	0.113
0.160	0.160
0.167	0.168
0.175	0.175
0.187	0.188
0.227	0.227

Maximum Acceleration: 25 g's



Certificate of Calibration Pile Dynamics, Inc.

Calibrated by Pile Dynamics, Inc.



Serial No: K14117 Temperature: 24.7 °C
 Model: KICHER PR Humidity: 50%
 Calibrated on: Channel 4 on 8G 5161 LE

PDA CALIBRATION FACTOR
320.0 mv/5000g
 (64.0 μ v/g)
 R²: 0.999910 [Chip programmed]

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

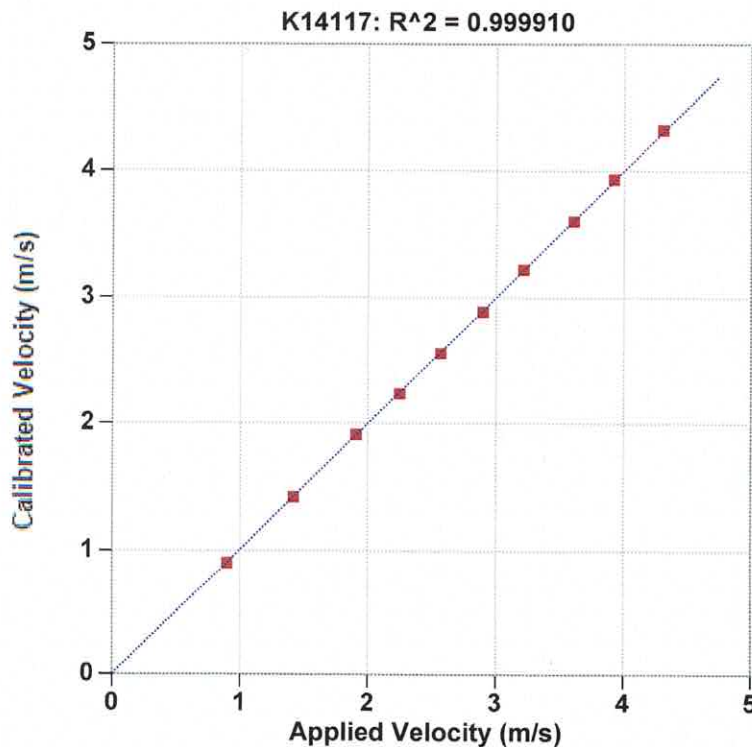
Operator: William Johnson


 Signed

Calibration valid 2 years

From: AUG 28 2024

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



Reference Velocity	S/N K14117 Velocity
m/s	m/s
0.900	0.901
1.422	1.420
1.909	1.911
2.251	2.236
2.570	2.558
2.900	2.889
3.222	3.222
3.611	3.602
3.923	3.936
4.309	4.326

Maximum Acceleration: 918 g's



Certificate of Calibration

PILE DYNAMICS, INC.

Calibrated by Pile Dynamics, Inc.



Serial No: K14118 Temperature: 24.7 °C
 Model: KICHER PR Humidity: 50%
 Calibrated on: Channel 3 on 8G 5161 LE

PDA CALIBRATION FACTOR
340.6 mv/5000g
 (68.1 μ v/g)
 R²: 0.999956 [Chip programmed]

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

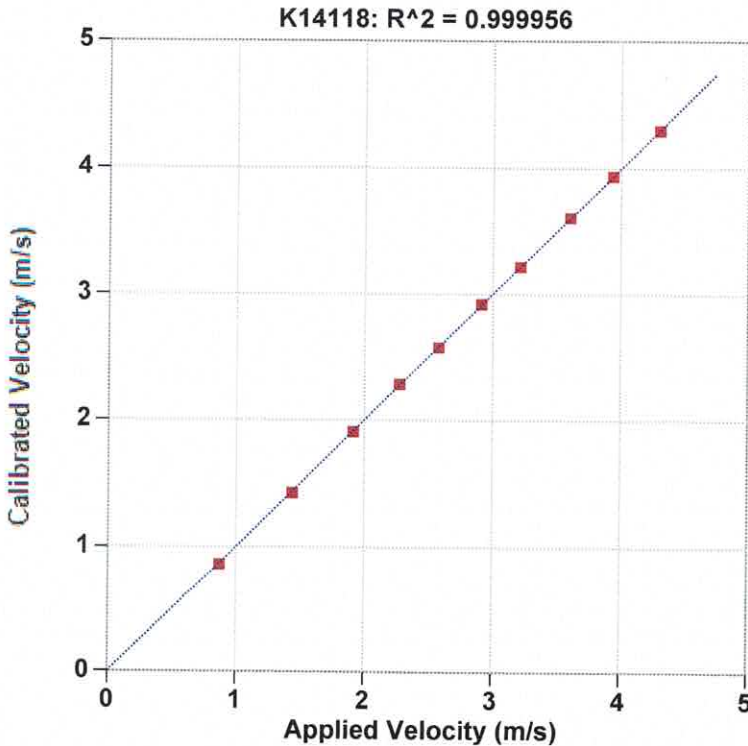
Operator: William Johnson

Signed

Calibration valid 2 years

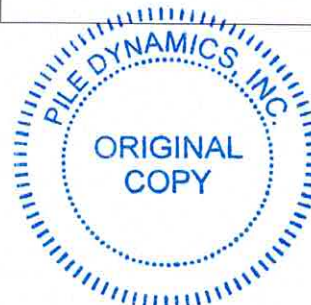
From: AUG 28 2024

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



Reference Velocity	S/N K14118 Velocity
m/s	m/s
0.871	0.864
1.442	1.431
1.916	1.909
2.278	2.286
2.582	2.579
2.913	2.923
3.221	3.222
3.605	3.612
3.941	3.941
4.307	4.300

Maximum Acceleration: 915 g's



Certificate of Calibration

Pile Dynamics, Inc.

Calibrated by Pile Dynamics, Inc.



Serial No: K14119 Temperature: 24.7 °C
 Model: KICHER PR Humidity: 50%
 Calibrated on: Channel 4 on 8G 5161 LE

PDA CALIBRATION FACTOR

350.1 mv/5000g
 (70.0 μv/g)
 R²: 0.999961 [Chip programmed]

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

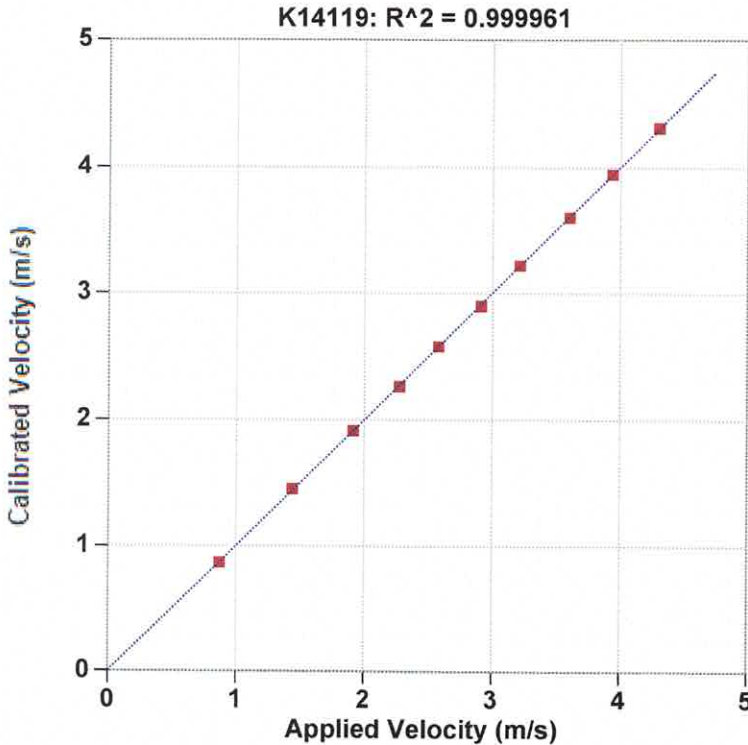
Operator: William Johnson

Signed

Calibration valid 2 years

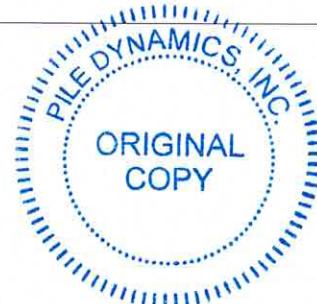
From: **AUG 28 2024**

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



Reference Velocity	S/N K14119 Velocity
m/s	m/s
0.871	0.870
1.442	1.454
1.916	1.918
2.278	2.269
2.582	2.583
2.913	2.902
3.221	3.222
3.605	3.601
3.941	3.947
4.307	4.312

Maximum Acceleration: 915 g's



Certificate of Calibration

Pile Dynamics, Inc.

Calibrated by Pile Dynamics, Inc.



Serial No: K14120 Temperature: 24.7 °C
 Model: KICHER PR Humidity: 50%
 Calibrated on: Channel 3 on 8G 5161 LE

PDA CALIBRATION FACTOR
385.6 mv/5000g
 (77.1 μ v/g)
 R²: 0.999976 [Chip programmed]

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

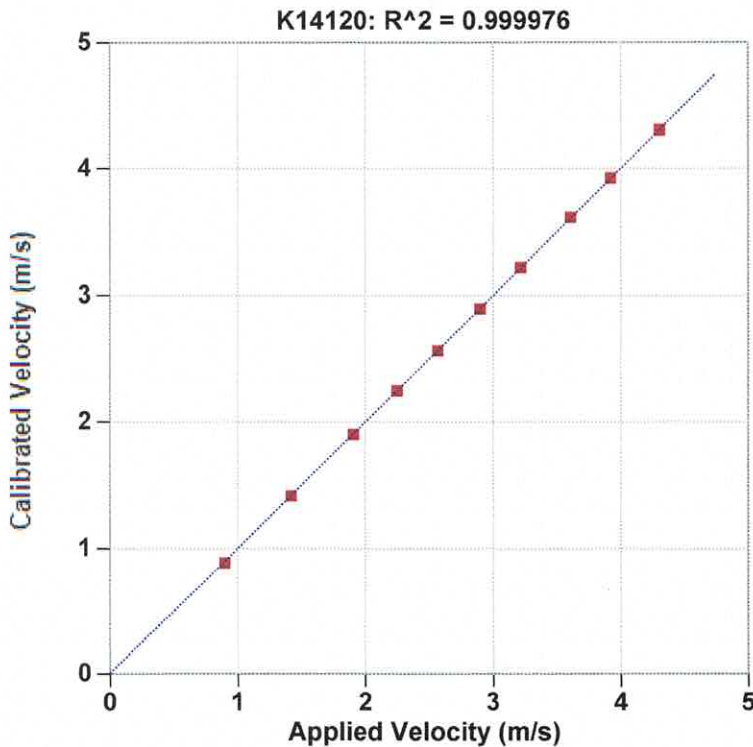
Reference accelerometer calibrations are traceable to the United States National Institute of Standards and Technology (NIST).

Operator: William Johnson

Signed

Calibration valid 2 years
AUG 28 2024

From: _____



Reference Velocity	S/N K14120 Velocity
m/s	m/s
0.900	0.890
1.422	1.418
1.909	1.902
2.251	2.251
2.570	2.566
2.900	2.898
3.222	3.223
3.611	3.618
3.923	3.929
4.309	4.307

Maximum Acceleration: 918 g's





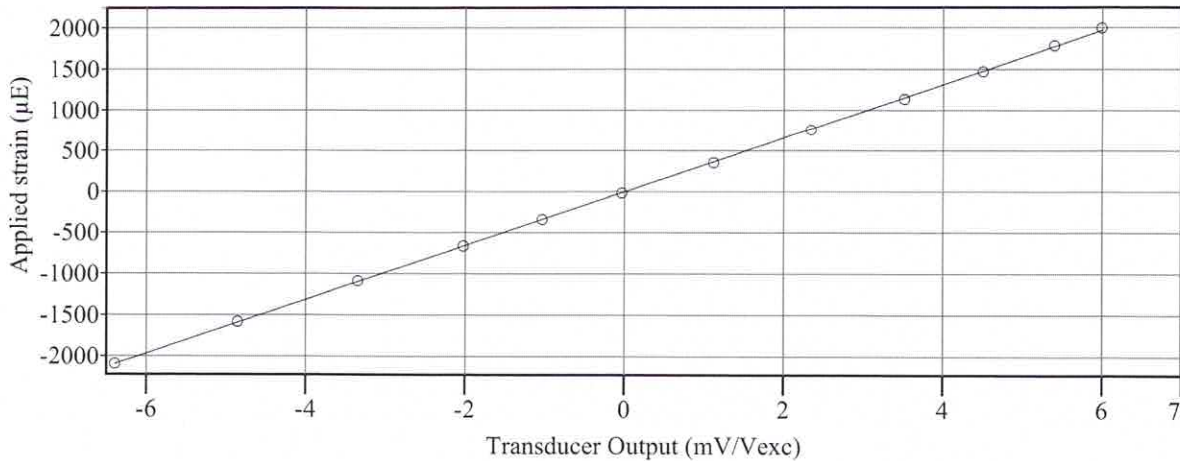
Certificate of Calibration

Pile Dynamics, Inc.
 Transducer Model: PDI Strain Transducer
 Serial Number: 81A
 PDI Gage Factor: 94.8
 Mean Linear Correlation Coefficient: 0.999901

Table 1: Representative Calibration Data

Applied strain (μE)	Gage Output (mV/Vexc)	Applied strain (μE)	Gage Output (mV/Vexc)
-2093.2	-6.394	354.3	1.118
-1581.4	-4.851	754.6	2.340
-1089.2	-3.345	1135.2	3.513
-662.7	-2.023	1469.8	4.496
-341.2	-1.032	1784.8	5.395
-13.1	-0.031	1994.8	5.989

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: 81A

AUG 28 2024

Calibration Date: _____





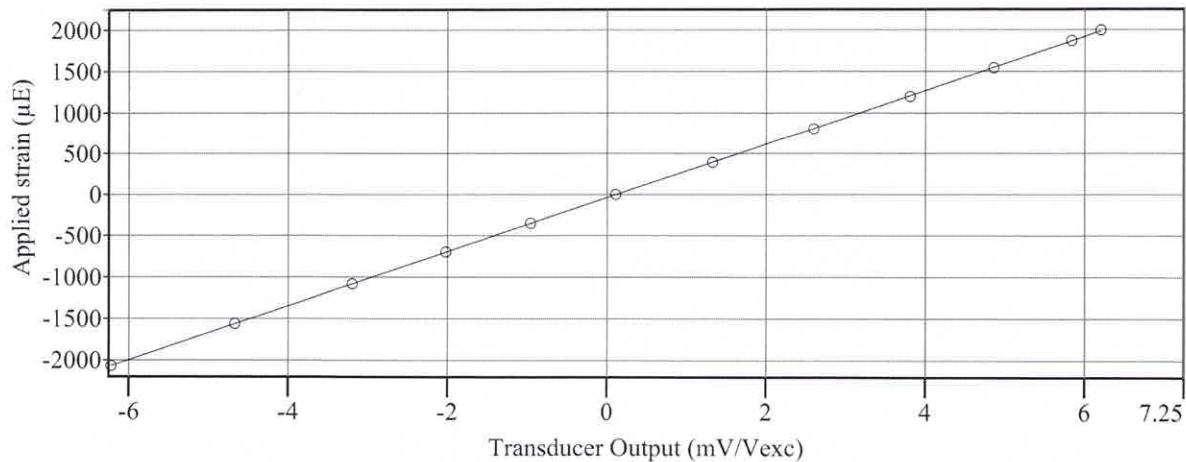
Certificate of Calibration

Pile Dynamics, Inc.
 Transducer Model: PDI Strain Transducer
 Serial Number: 82A
 PDI Gage Factor: 94.3
 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)
-2069.1	-6.220	393.7	1.328
-1561.7	-4.666	807.1	2.596
-1082.7	-3.192	1194.2	3.808
-695.5	-2.022	1542.0	4.856
-347.8	-0.958	1870.1	5.836
0.0	0.112	1996.9	6.201

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

PDI Gage: 82A

Calibration Date: _____

Signature:

Paul Hartman

AUG 28 2024





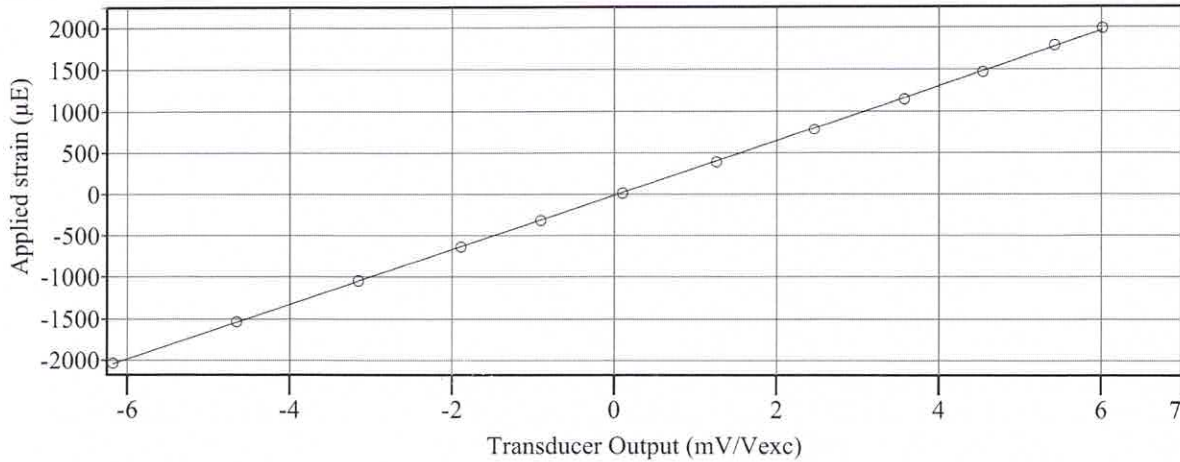
Certificate of Calibration

Pile Dynamics, Inc.
 Transducer Model: PDI Strain Transducer
 Serial Number: 84A
 PDI Gage Factor: 94.9
 Mean Linear Correlation Coefficient: 0.999910

Table 1: Representative Calibration Data

Applied strain (μE)	Gage Output (mV/Vexc)	Applied strain (μE)	Gage Output (mV/Vexc)
-2034.1	-6.178	387.1	1.255
-1535.4	-4.652	780.8	2.464
-1043.3	-3.153	1148.3	3.573
-636.5	-1.892	1469.8	4.539
-315.0	-0.905	1784.8	5.424
13.1	0.102	1988.2	6.015

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: 84A

AUG 28 2024

Calibration Date: _____





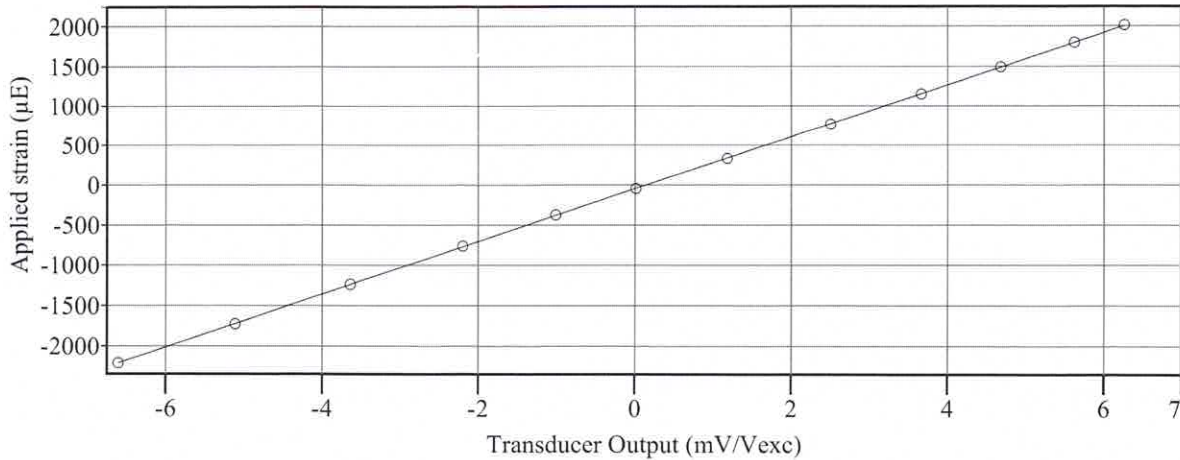
Certificate of Calibration

Pile Dynamics, Inc.
 Transducer Model: PDI Strain Transducer
 Serial Number: 85A
 PDI Gage Factor: 94.8
 Mean Linear Correlation Coefficient: 0.999989

Table 1: Representative Calibration Data

Applied strain (μE)	Gage Output (mV/Vexc)	Applied strain (μE)	Gage Output (mV/Vexc)
-2211.3	-6.607	334.6	1.178
-1725.7	-5.108	767.7	2.504
-1240.2	-3.637	1152.7	3.664
-761.2	-2.200	1489.5	4.681
-374.0	-1.012	1797.9	5.625
-45.9	0.012	2014.4	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: Paul Hartman

PDI Gage: 85A

Calibration Date: _____

Signature: *Paul Hartman*
 'AUG 28 2024





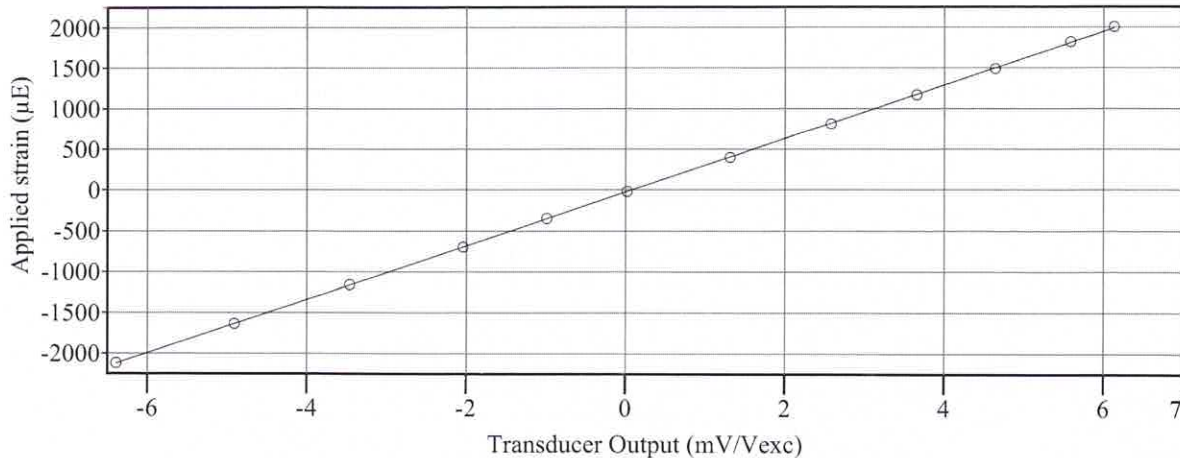
Certificate of Calibration

Pile Dynamics, Inc.
 Transducer Model: PDI Strain Transducer
 Serial Number: 86A
 PDI Gage Factor: 94.8
 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)
-2119.4	-6.391	400.3	1.309
-1633.9	-4.906	813.6	2.579
-1154.9	-3.458	1168.0	3.654
-695.5	-2.040	1489.5	4.637
-347.8	-0.989	1817.6	5.587
-19.7	0.023	2001.3	6.132

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: 86A

AUG 28 2024

Calibration Date: _____





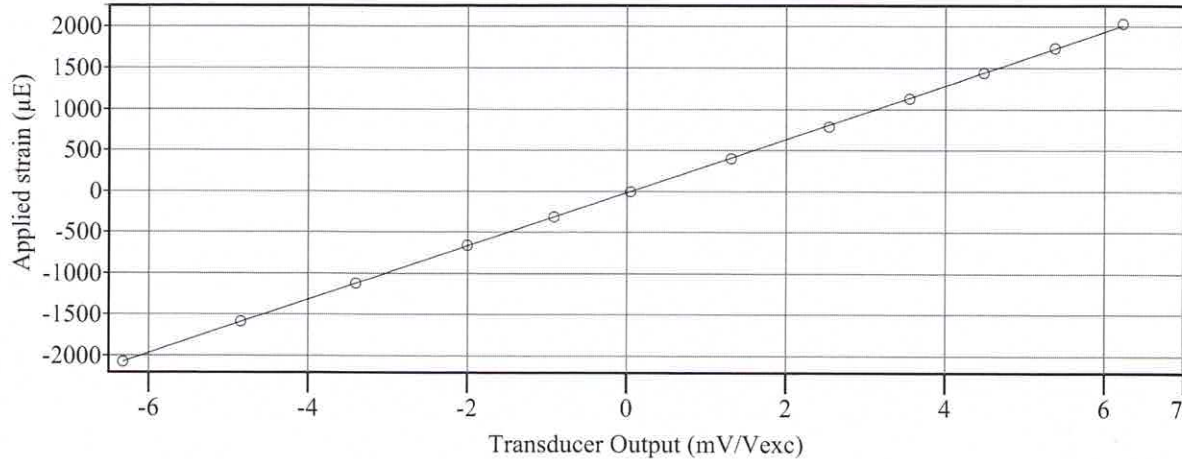
Certificate of Calibration

Pile Dynamics, Inc.
 Transducer Model: PDI Strain Transducer
 Serial Number: 87A
 PDI Gage Factor: 94.1
 Mean Linear Correlation Coefficient: 0.999929

Table 1: Representative Calibration Data

Applied strain (μE)	Gage Output (mV/Vexc)	Applied strain (μE)	Gage Output (mV/Vexc)
-2073.5	-6.321	400.3	1.306
-1587.9	-4.840	787.4	2.538
-1119.9	-3.398	1128.6	3.552
-662.7	-2.002	1437.0	4.481
-315.0	-0.915	1738.8	5.378
-6.6	0.047	2034.1	6.226

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

PDI Gage: 87A

Calibration Date: _____

Signature: _____

AUG 28 2024

Paul Hartman





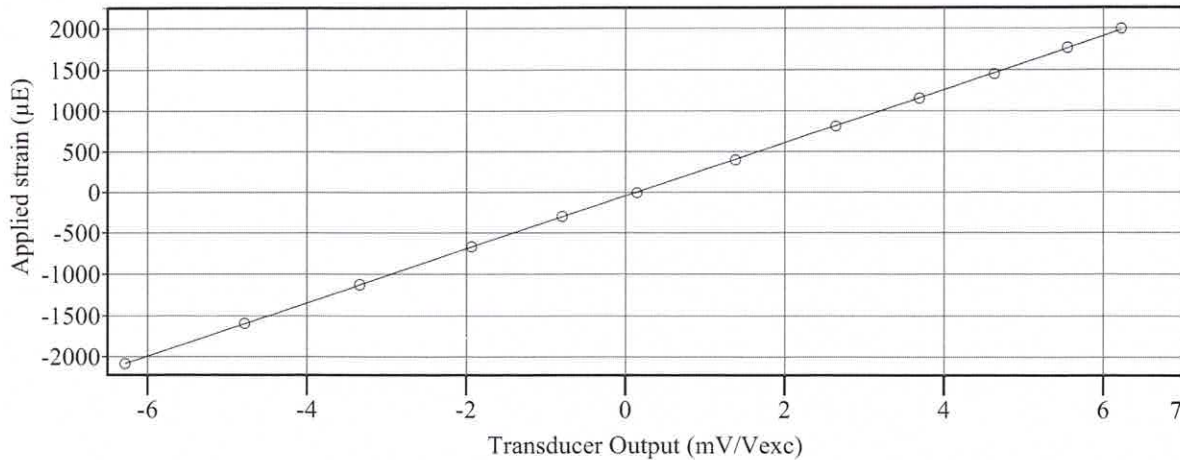
Certificate of Calibration

Pile Dynamics, Inc.
 Transducer Model: PDI Strain Transducer
 Serial Number: 88A
 PDI Gage Factor: 93.9
 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)
-2086.6	-6.283	395.9	1.377
-1594.5	-4.781	807.1	2.640
-1124.2	-3.334	1152.7	3.690
-669.3	-1.932	1450.1	4.630
-297.5	-0.795	1767.3	5.550
-6.6	0.144	1994.8	6.224

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

PDI Gage: 88A

Calibration Date: _____

Signature: _____

AUG 28 2024

Paul Hartman





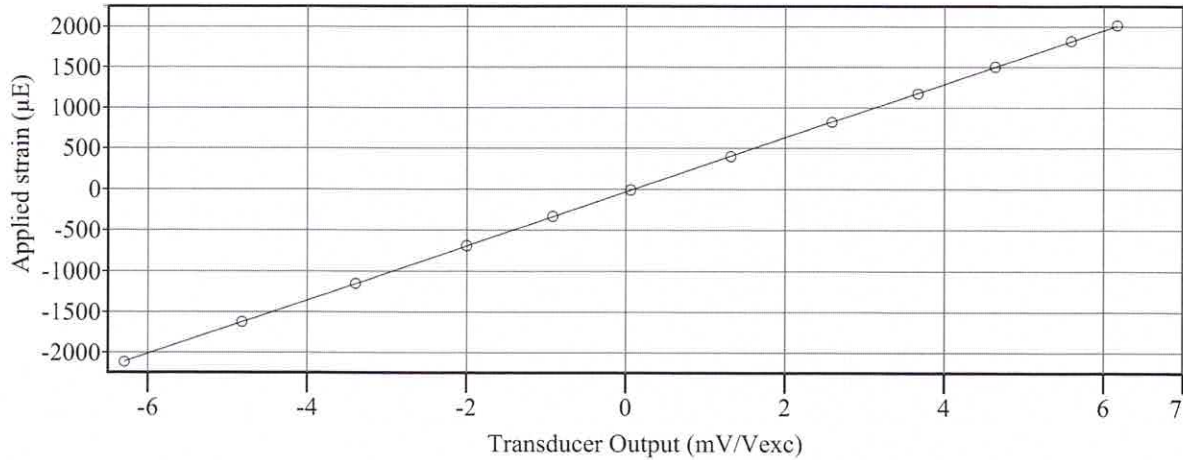
Certificate of Calibration

Pile Dynamics, Inc.
 Transducer Model: PDI Strain Transducer
 Serial Number: 89A
 PDI Gage Factor: 95.5
 Mean Linear Correlation Coefficient: 0.999989

Table 1: Representative Calibration Data

Applied strain (μE)	Gage Output (mV/Vexc)	Applied strain (μE)	Gage Output (mV/Vexc)
-2117.2	-6.296	400.3	1.315
-1620.7	-4.817	820.2	2.585
-1148.3	-3.391	1174.5	3.668
-689.0	-2.001	1502.6	4.634
-332.5	-0.919	1817.6	5.589
-6.6	0.060	2014.4	6.166

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: _____

PDI Gage: 89A

AUG 28 2024

Calibration Date: _____





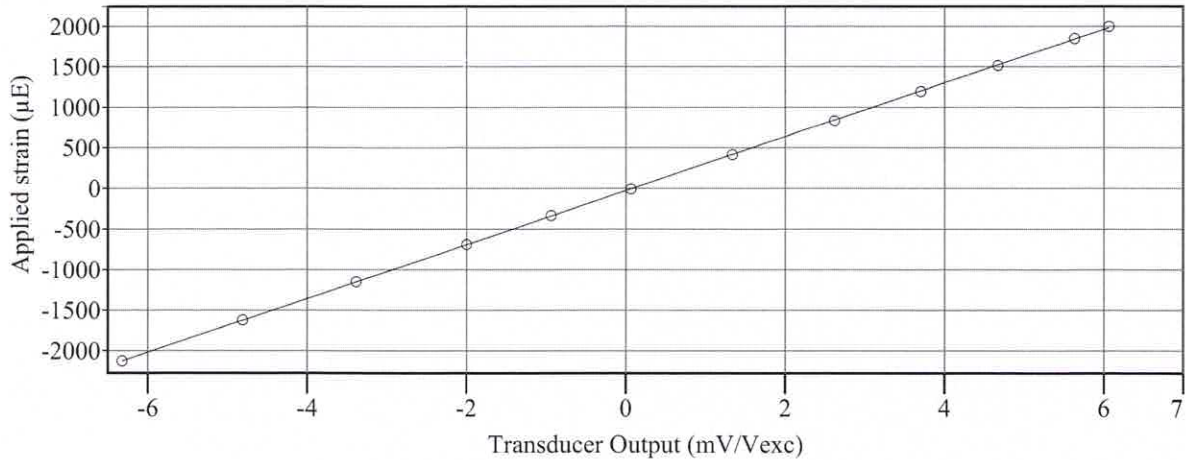
Certificate of Calibration

Pile Dynamics, Inc.
 Transducer Model: PDI Strain Transducer
 Serial Number: 110A
 PDI Gage Factor: 95.9
 Mean Linear Correlation Coefficient: 0.999974

Table 1: Representative Calibration Data

Applied strain (μE)	Gage Output (mV/Vexc)	Applied strain (μE)	Gage Output (mV/Vexc)
-2126.0	-6.323	411.2	1.333
-1620.7	-4.809	833.3	2.616
-1148.3	-3.385	1194.2	3.703
-689.0	-2.000	1515.7	4.670
-334.6	-0.937	1850.4	5.635
-6.6	0.065	2001.3	6.062

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: 110A

AUG 28 2024

Calibration Date: _____





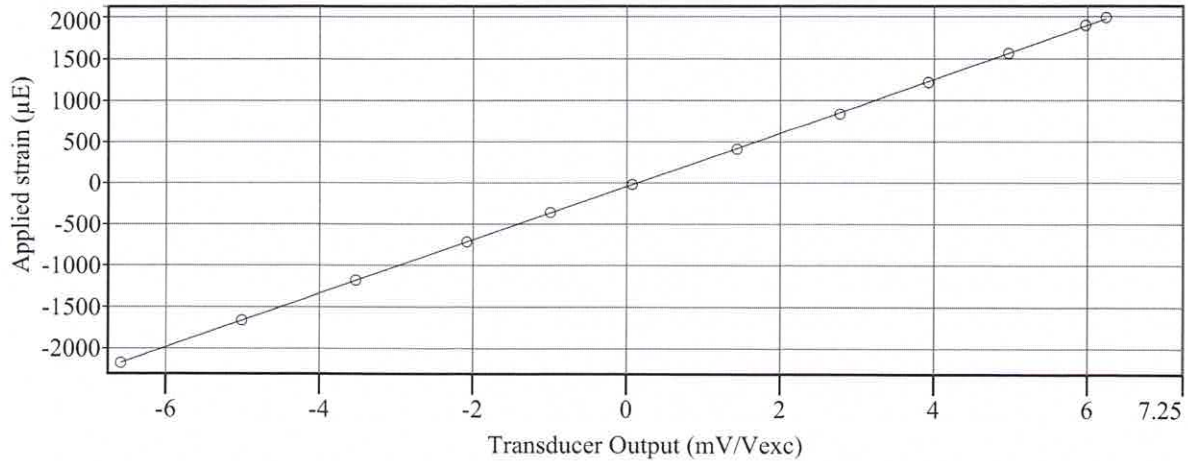
Certificate of Calibration

Pile Dynamics, Inc.
 Transducer Model: PDI Strain Transducer
 Serial Number: 111A
 PDI Gage Factor: 93.4
 Mean Linear Correlation Coefficient: 0.999970

Table 1: Representative Calibration Data

Applied strain (μE)	Gage Output (mV/Vexc)	Applied strain (μE)	Gage Output (mV/Vexc)
-2169.7	-6.584	413.4	1.432
-1660.1	-5.009	839.9	2.772
-1181.1	-3.525	1216.1	3.926
-715.2	-2.081	1561.7	4.965
-360.9	-0.997	1896.3	5.972
-19.7	0.072	1988.2	6.239

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

PDI Gage: 111A

Calibration Date: _____

Signature: _____

Paul Hartman

AUG 28 2024



Certificate of Calibration

Pile Dynamics, Inc.

Calibrated by Pile Dynamics, Inc.



Serial No: 80150 Temperature: 24.7 °C

Model: PE Humidity: 49%

Calibrated on: Channel 3 on 8G 5161 LE

PDA CALIBRATION FACTOR

931.7 g's/volt

R²: 0.999956 [Chip programmed]

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

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

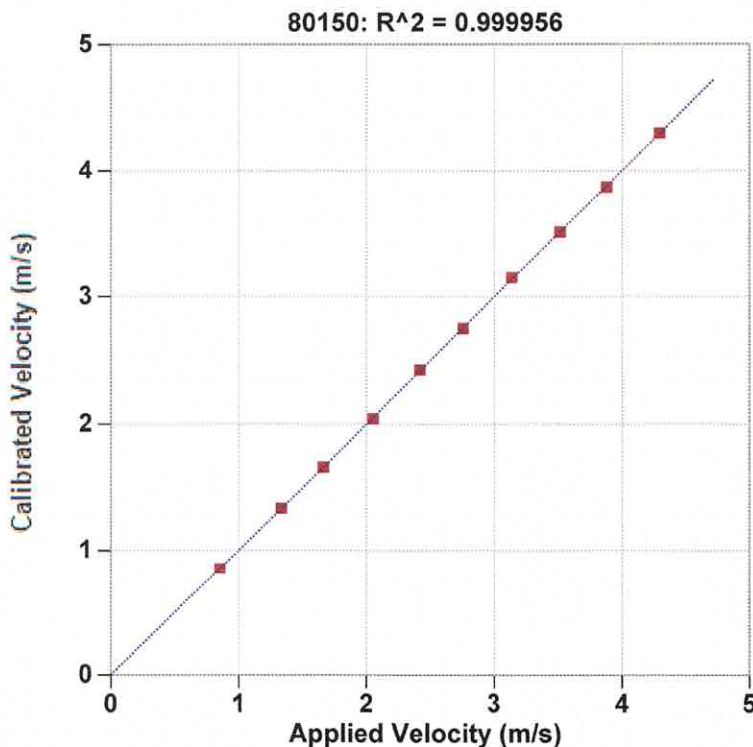
Operator: William Johnson

Signed

Calibration valid 2 years

From: AUG 27 2024

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



Reference Velocity	S/N 80150 Velocity
m/s	m/s
0.856	0.857
1.338	1.340
1.666	1.667
2.056	2.045
2.423	2.429
2.761	2.753
3.145	3.158
3.521	3.517
3.882	3.875
4.299	4.305

Maximum Acceleration: 921 g's



Certificate of Calibration

Pile Dynamics, Inc.



Calibrated by Pile Dynamics, Inc.

Serial No: K14143 Temperature: 23.5 °C
 Model: KICHER PR Humidity: 39%
 Calibrated on: Channel 3 on 8G 5161 LE

PDA CALIBRATION FACTOR

357.9 mv/5000g
 (71.6 μ v/g)
 R²: 0.999964 [Chip programmed]

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

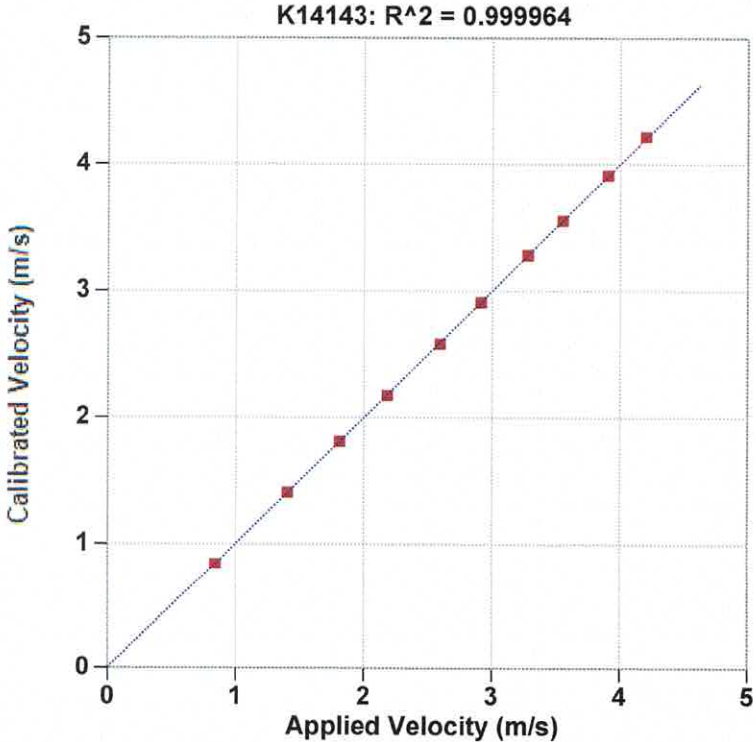
Operator: William Johnson

William Johnson
 Signed

Calibration valid 2 years
AUG 27 2024

From: _____

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



Reference Velocity	S/N K14143 Velocity
m/s	m/s
0.845	0.844
1.409	1.408
1.814	1.812
2.188	2.180
2.598	2.587
2.918	2.914
3.285	3.285
3.557	3.556
3.909	3.913
4.208	4.220

Maximum Acceleration: 905 g's



Certificate of Calibration

Pile Dynamics, Inc.



Calibrated by Pile Dynamics, Inc.

Serial No: K14144 Temperature: 23.8 °C
 Model: KICHER PR Humidity: 39%
 Calibrated on: Channel 3 on 8G 5161 LE

PDA CALIBRATION FACTOR

371.3 mv/5000g
 (74.3 μ v/g)
 R²: 0.999912 [Chip programmed]

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

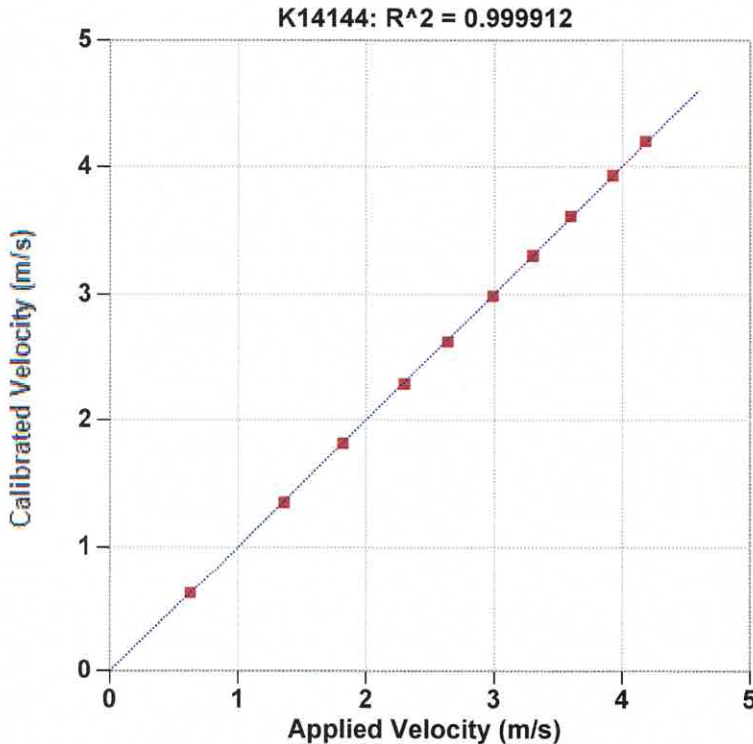
Operator: William Johnson

Signed

Calibration valid 2 years
AUG 27 2024

From: _____

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



Reference Velocity	S/N K14144 Velocity
m/s	m/s
0.630	0.631
1.363	1.353
1.820	1.817
2.305	2.288
2.642	2.625
2.994	2.991
3.308	3.307
3.601	3.616
3.931	3.933
4.187	4.200

Maximum Acceleration: 902 g's





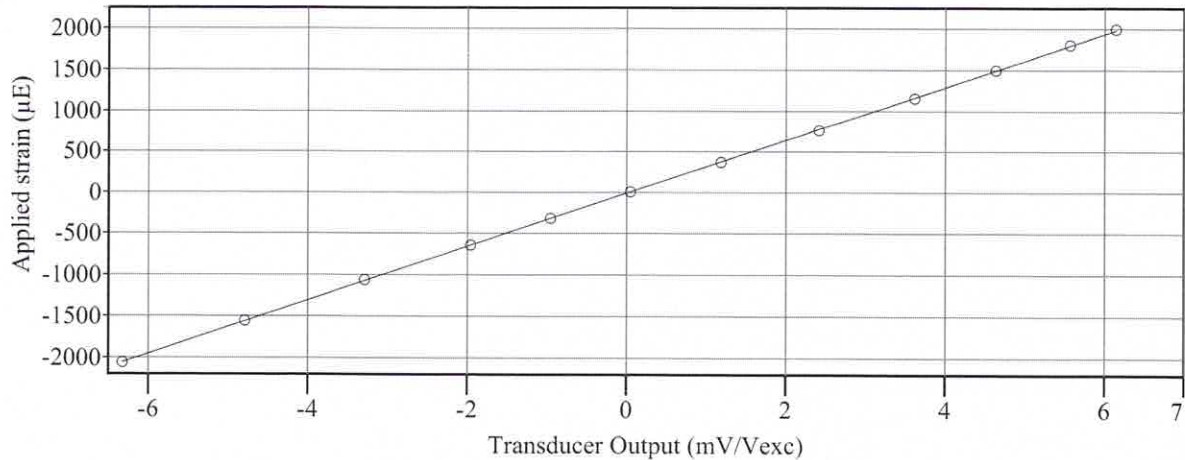
Certificate of Calibration

Pile Dynamics, Inc.
 Transducer Model: PDI Strain Transducer
 Serial Number: 80A
 PDI Gage Factor: 93.7
 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)
-2060.4	-6.324	367.5	1.182
-1555.1	-4.789	761.2	2.412
-1063.0	-3.286	1154.9	3.614
-643.0	-1.958	1496.1	4.630
-317.1	-0.956	1804.5	5.565
6.6	0.047	1994.8	6.138

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: 80A

Calibration Date: AUG 27 2024





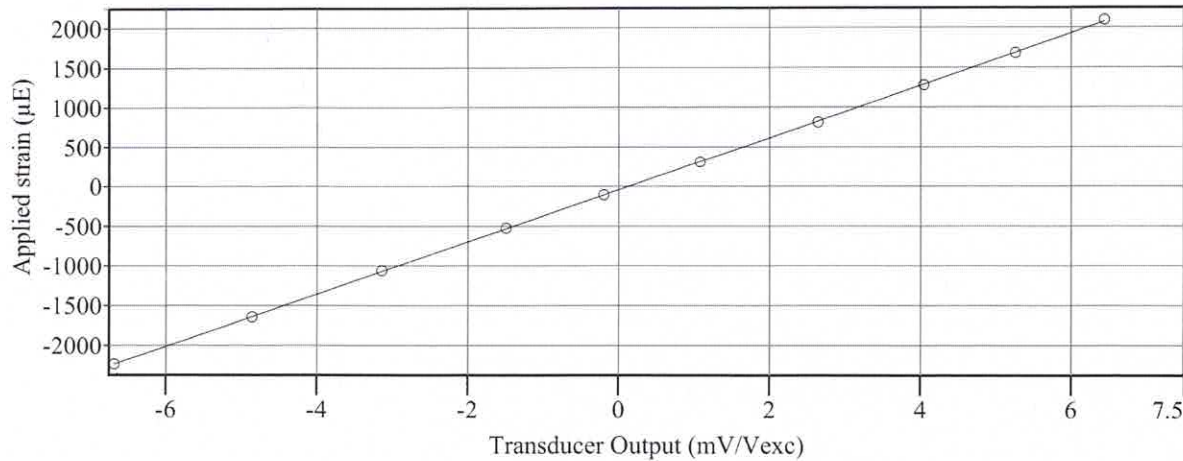
Certificate of Calibration

Pile Dynamics, Inc.
 Transducer Model: PDI Strain Transducer
 Serial Number: X079
 PDI Gage Factor: 94.9
 Mean Linear Correlation Coefficient: 0.999960

Table 1: Representative Calibration Data

Applied strain (μE)	Gage Output (mV/Vexc)	Applied strain (μE)	Gage Output (mV/Vexc)
-2237.5	-6.680	306.2	1.077
-1640.4	-4.854	813.6	2.642
-1063.0	-3.136	1279.5	4.046
-524.9	-1.488	1679.8	5.257
-105.0	-0.196	2091.0	6.438

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: X079

Calibration Date: **AUG 26 2024**





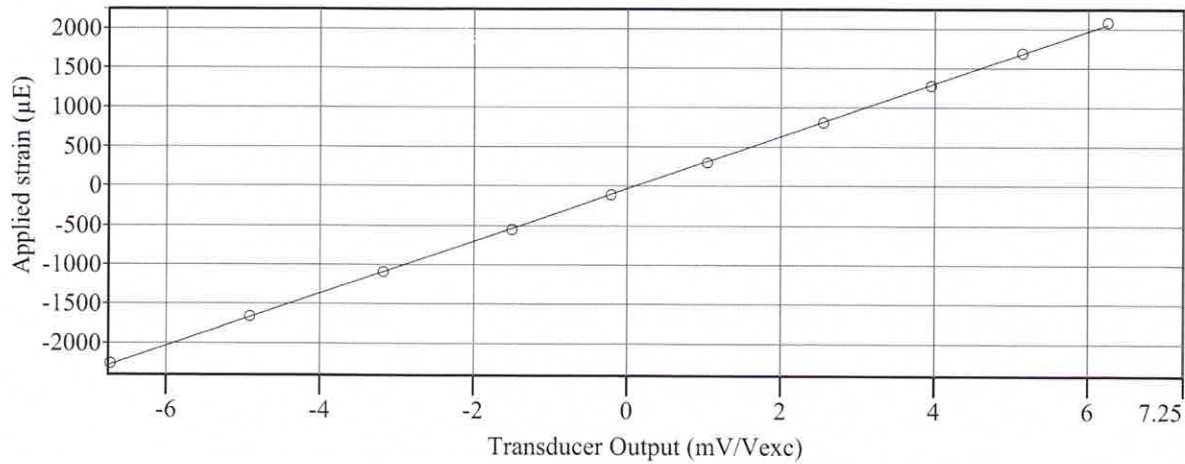
Certificate of Calibration

Pile Dynamics, Inc.
 Transducer Model: PDI Strain Transducer
 Serial Number: X080
 PDI Gage Factor: 96.2
 Mean Linear Correlation Coefficient: 0.999892

Table 1: Representative Calibration Data

Applied strain (μE)	Gage Output (mV/Vexc)	Applied strain (μE)	Gage Output (mV/Vexc)
-2257.2	-6.723	295.3	1.042
-1660.1	-4.910	807.1	2.553
-1089.2	-3.174	1273.0	3.956
-544.6	-1.498	1686.4	5.142
-111.5	-0.212	2080.1	6.255

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: X080

AUG 26 2024

Calibration Date: _____



Certificate of Calibration Pile Dynamics, Inc.

Calibrated by Pile Dynamics, Inc.



Serial No: LW383790 Temperature: 24.0 °C
 Model: PIT ACC Humidity: 42%
 Calibrated on: Channel 3 on 8G 5161 LE

PDA CALIBRATION FACTOR
10.5 g's/volt
 R²: 0.999935 [Chip programmed]

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

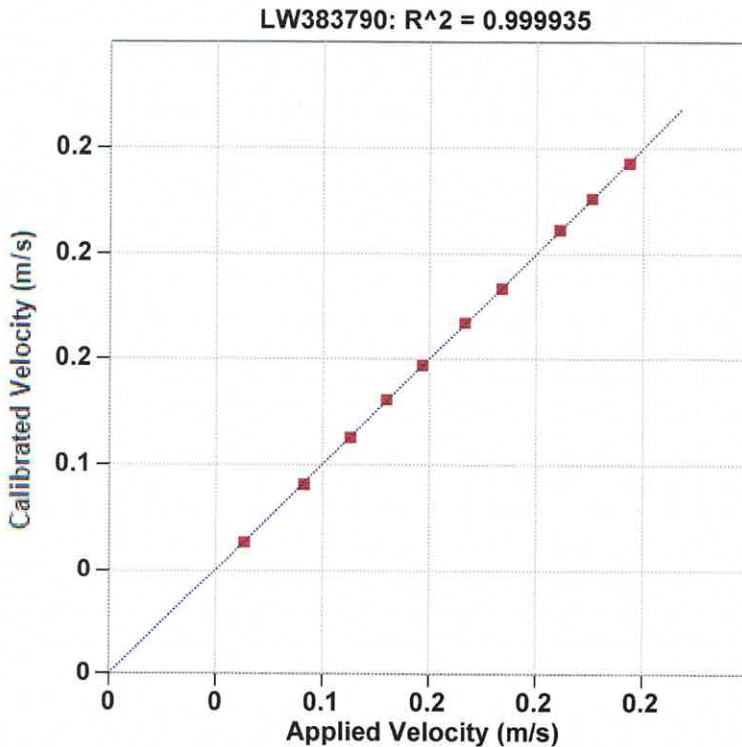
Operator: William Johnson

Signed

Calibration valid 2 years

From: AUG 26 2024

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



Reference Velocity	S/N LW383790 Velocity
m/s	m/s
0.064	0.063
0.091	0.091
0.113	0.113
0.130	0.131
0.147	0.147
0.167	0.167
0.184	0.184
0.211	0.211
0.226	0.226
0.244	0.243

Maximum Acceleration: 27 g's



Accelerometer Calibration Certificate

Pile Dynamics, Inc.



Calibrated by Pile Dynamics, Inc.
 Calibration performed on **AUG 26 2024**

Serial No: LW502557 **Temperature:** 24.9 °C
Model: PE **Humidity:** 45%
Calibrated on: Channel 3 on 8G 5161 LE

PDA CALIBRATION FACTOR

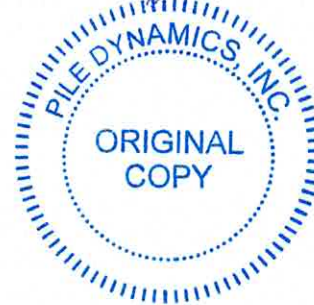
10.1 g's/volt

R²: 0.999977 [Chip programmed]

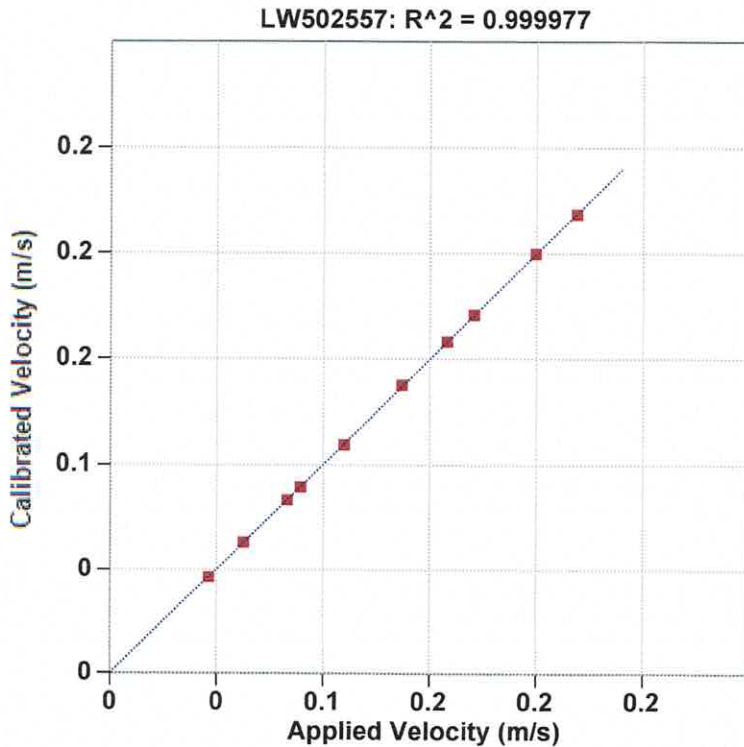
Operator: William Johnson

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

Signed



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



Reference Velocity	S/N LW502557 Velocity
m/s	m/s
0.046	0.046
0.063	0.063
0.083	0.083
0.089	0.089
0.110	0.110
0.137	0.138
0.158	0.158
0.171	0.171
0.200	0.200
0.219	0.219

Maximum Acceleration: 25 g's

Accelerometer Calibration Certificate

Pile Dynamics, Inc.



Calibrated by Pile Dynamics, Inc.
Calibration performed on

AUG 26 2024

Serial No: 80149 Temperature: 24.7 °C

Model: PE Humidity: 48%

Calibrated on: Channel 3 on 8G 5161 LE

PDA CALIBRATION FACTOR

897.5 g's/volt

R²: 0.999912 [Chip programmed]

Operator: William Johnson

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

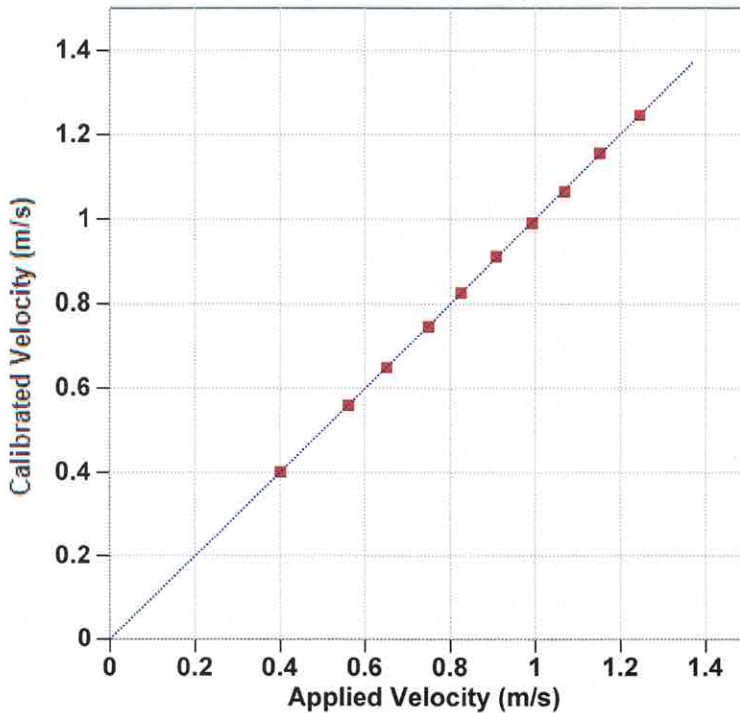
Ref Acc 2: 78268! Cal on: 11Jan2024
986 g's/volt

Signed



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

80149: R² = 0.999912



Reference Velocity	S/N 80149 Velocity
m/s	m/s
0.402	0.402
0.561	0.560
0.652	0.651
0.750	0.747
0.826	0.827
0.909	0.913
0.994	0.992
1.070	1.066
1.152	1.156
1.246	1.247

Maximum Acceleration: 164 g's

Certificate of Calibration

Pile Dynamics, Inc.

Calibrated by Pile Dynamics, Inc.



Serial No: K14121 Temperature: 24.2 °C
 Model: KICHER PR Humidity: 51%
 Calibrated on: Channel 3 on 8G 5161 LE

PDA CALIBRATION FACTOR
357.2 mv/5000g
 (71.4 μ v/g)
 R²: 0.999940 [Chip programmed]

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

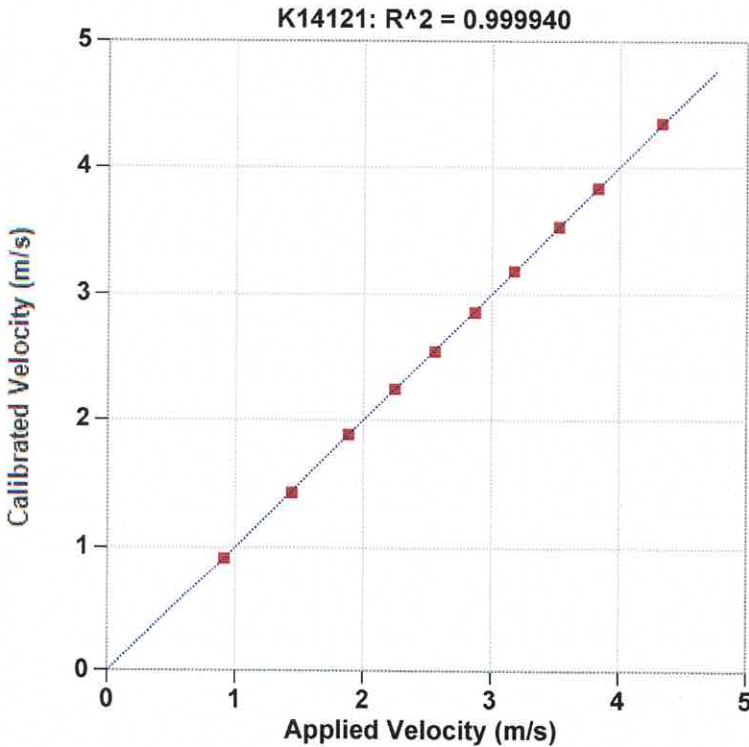
Operator: William Johnson


 Signed

Calibration valid 2 years

From: AUG 23 2024

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



Reference Velocity	S/N K14121 Velocity
m/s	m/s
0.915	0.916
1.446	1.431
1.886	1.885
2.250	2.253
2.561	2.549
2.871	2.862
3.179	3.187
3.530	3.531
3.835	3.836
4.337	4.347

Maximum Acceleration: 931 g's



Certificate of Calibration

Pile Dynamics, Inc.

Calibrated by Pile Dynamics, Inc.



Serial No: K14122 Temperature: 25.3 °C
 Model: KICHER PR Humidity: 49%
 Calibrated on: Channel 4 on 8G 5161 LE

PDA CALIBRATION FACTOR

350.9 mv/5000g
 (70.2 μ v/g)
 R²: 0.999945 [Chip programmed]

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

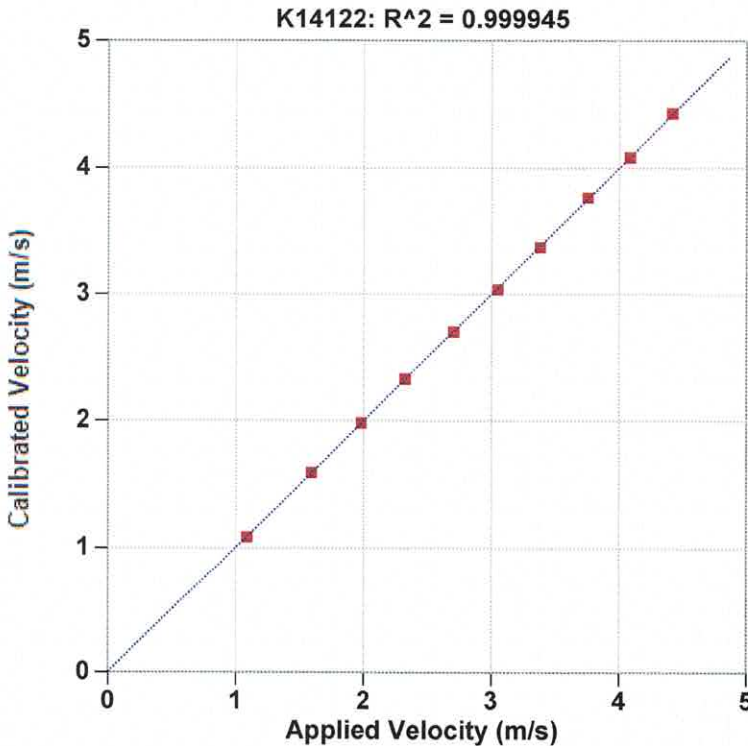
Reference accelerometer calibrations are traceable to the United States National Institute of Standards and Technology (NIST).

Operator: William Johnson

William Johnson
 Signed

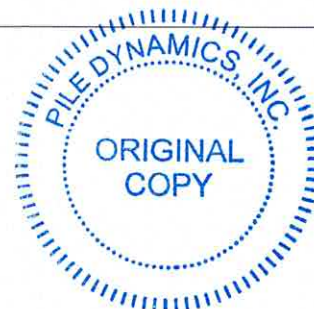
Calibration valid 2 years **AUG 23 2024**

From: _____



Reference Velocity	S/N K14122 Velocity
m/s	m/s
1.092	1.088
1.594	1.598
1.984	1.984
2.327	2.329
2.706	2.701
3.054	3.039
3.384	3.375
3.757	3.770
4.087	4.087
4.420	4.428

Maximum Acceleration: 925 g's



Certificate of Calibration Pile Dynamics, Inc.

Calibrated by Pile Dynamics, Inc.



Serial No: K14123 Temperature: 25.3 °C
 Model: KICHER PR Humidity: 49%
 Calibrated on: Channel 3 on 8G 5161 LE

PDA CALIBRATION FACTOR
322.4 mv/5000g
 (64.5 μ v/g)
 R²: 0.999972 [Chip programmed]

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

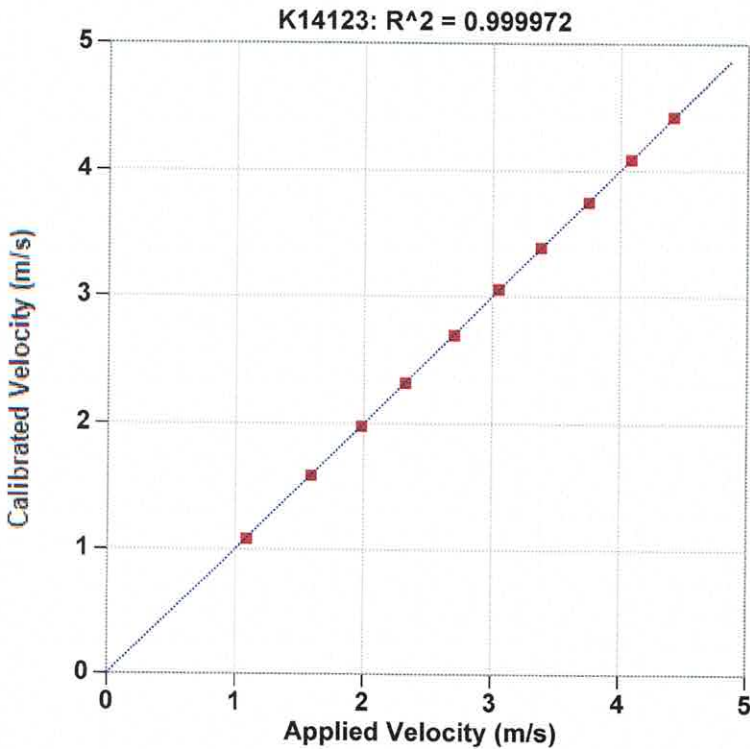
Operator: William Johnson

Signed

Calibration valid 2 years
AUG 23 2024

From: _____

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



Reference Velocity	S/N K14123 Velocity
m/s	m/s
1.092	1.084
1.594	1.587
1.984	1.981
2.327	2.323
2.706	2.701
3.054	3.059
3.384	3.391
3.757	3.750
4.087	4.089
4.420	4.426

Maximum Acceleration: 925 g's



Certificate of Calibration

Pile Dynamics, Inc.

Calibrated by Pile Dynamics, Inc.



Serial No: K14124 Temperature: 24.2 °C
 Model: KICHER PR Humidity: 51%
 Calibrated on: Channel 4 on 8G 5161 LE

PDA CALIBRATION FACTOR

340.7 mv/5000g
 (68.1 μ v/g)
 R²: 0.999965 [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

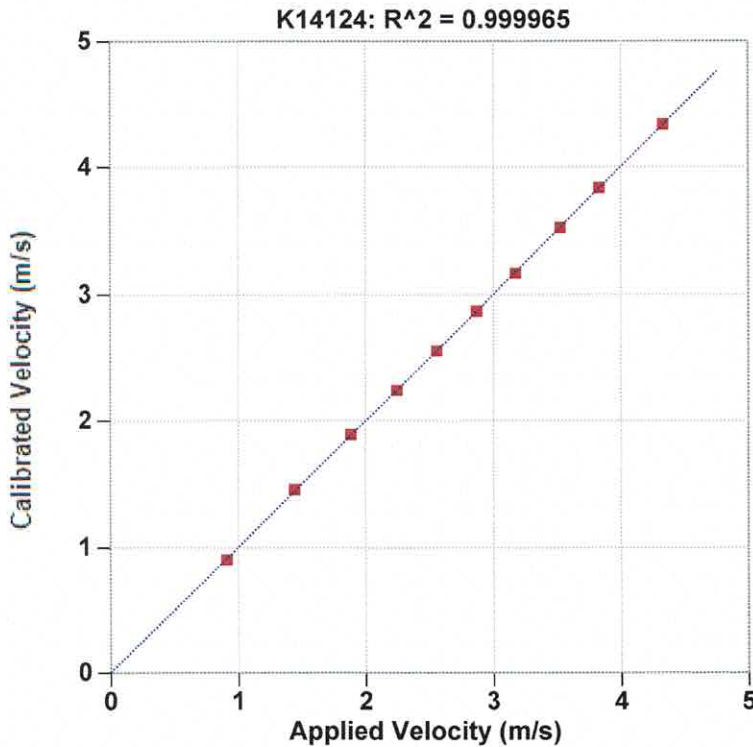
Signed

Calibration valid 2 years

AUG 23 2024

From: _____

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



Reference Velocity	S/N K14124 Velocity
m/s	m/s
0.915	0.905
1.446	1.457
1.886	1.891
2.250	2.248
2.561	2.561
2.871	2.874
3.179	3.170
3.530	3.526
3.835	3.839
4.337	4.340

Maximum Acceleration: 931 g's

