

Accelerometer Calibration Certificate

Pile Dynamics, Inc.



Calibrated by Pile Dynamics, Inc.

Calibration performed on APR 03 2024

Serial No: K13816 Temperature: 23.6 °C

Model: PR Humidity: 44%

Calibrated on: Channel 3 on 8G 5161 LE

PDA CALIBRATION FACTOR

394.2 mv/5000g

(78.8 μ v/g)

R²: 0.999912 [Chip programmed]

Operator: William Johnson

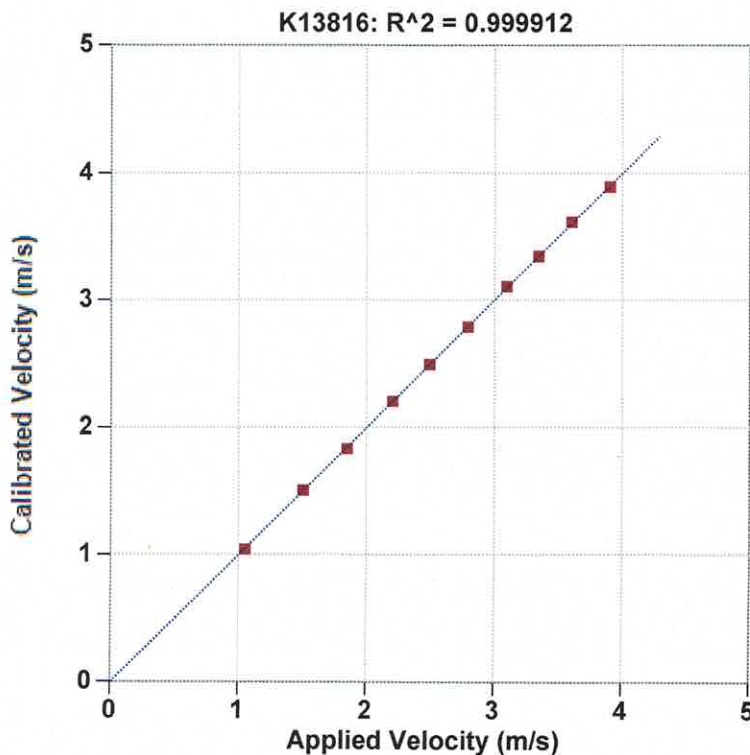
Ref Acc 1: 72505! Cal on: 05Apr2022
1035 g's/volt

Ref Acc 2: 72517! Cal on: 05Apr2022
1049 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 K13816 Velocity
m/s	m/s
1.053	1.043
1.505	1.510
1.849	1.835
2.204	2.208
2.493	2.495
2.794	2.788
3.097	3.107
3.347	3.347
3.604	3.616
3.902	3.892

Maximum Acceleration: 840 g's

Accelerometer Calibration Certificate

Pile Dynamics, Inc.



Calibrated by Pile Dynamics, Inc.
Calibration performed on

APR 03 2024

Serial No: K13817 Temperature: 23.6 °C

Model: PR Humidity: 44%

Calibrated on: Channel 4 on 8G 5161 LE

PDA CALIBRATION FACTOR

328.7 mv/5000g

(65.7 μ v/g)

R²: 0.999912 [Chip programmed]

Operator: William Johnson

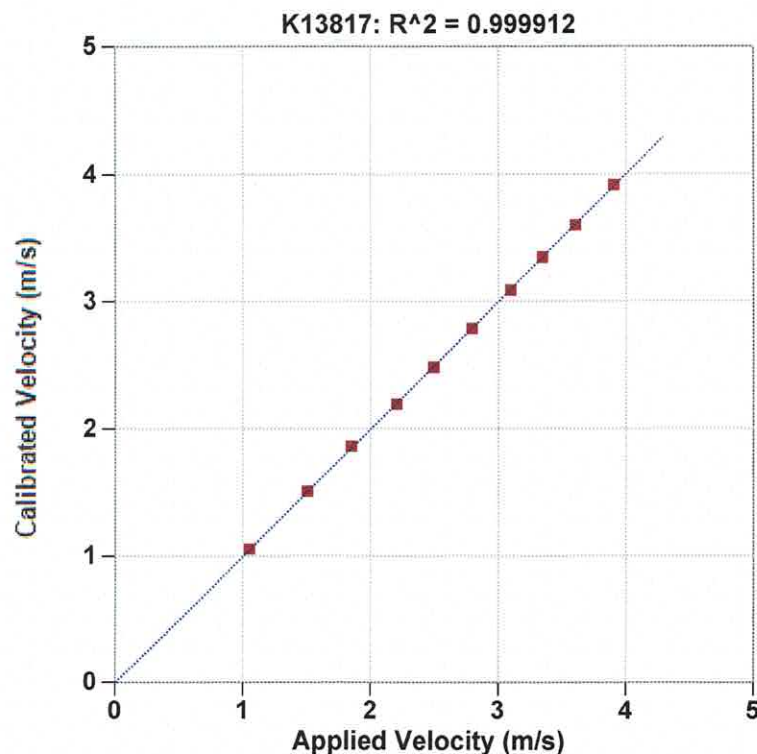
Ref Acc 1: 72505! Cal on: 05Apr2022
1035 g's/volt

Ref Acc 2: 72517! Cal on: 05Apr2022
1049 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 K13817 Velocity
m/s	m/s
1.053	1.056
1.505	1.508
1.849	1.866
2.204	2.198
2.493	2.487
2.794	2.791
3.097	3.089
3.347	3.345
3.604	3.597
3.902	3.917
Maximum Acceleration: 840 g's	

Accelerometer Calibration Certificate

Pile Dynamics, Inc.



Calibrated by Pile Dynamics, Inc.

Calibration performed on **APR 03 2024**

Serial No: LW481052 Temperature: 21.5 °C

Model: PE Humidity: 35%

Calibrated on: Channel 4 on 8G 5161 LE

PDA CALIBRATION FACTOR

10.0 g's/volt

R²: 0.999940 [Chip programmed]

Operator: William Johnson

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

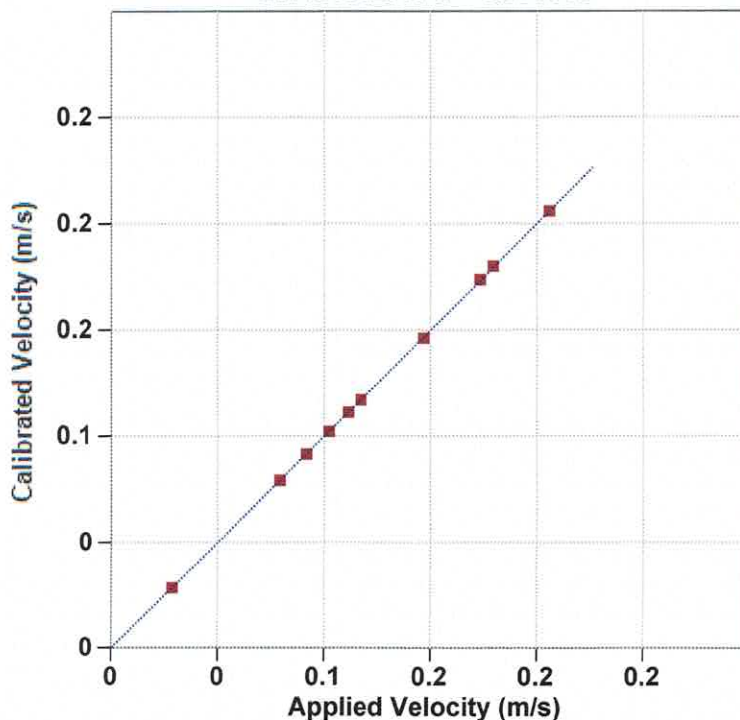
Ref Acc 2: LW423794! Cal on: 28Jul2022
10 g's/volt

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

William Johnson
Signed



LW481052: R² = 0.999940



Reference Velocity	S/N LW481052 Velocity
m/s	m/s
0.029	0.028
0.079	0.079
0.092	0.091
0.102	0.102
0.111	0.111
0.117	0.117
0.147	0.146
0.173	0.174
0.179	0.180
0.206	0.206
Maximum Acceleration: 24 g's	

Accelerometer Calibration Certificate

Pile Dynamics, Inc.



Calibrated by Pile Dynamics, Inc.

Calibration performed on **APR 03 2024**

Serial No: LW485609 Temperature: 21.7 °C

Model: PE Humidity: 34%

Calibrated on: Channel 4 on 8G 5161 LE

PDA CALIBRATION FACTOR

10.1 g's/volt

R²: 0.999941 [Chip programmed]

Operator: William Johnson

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

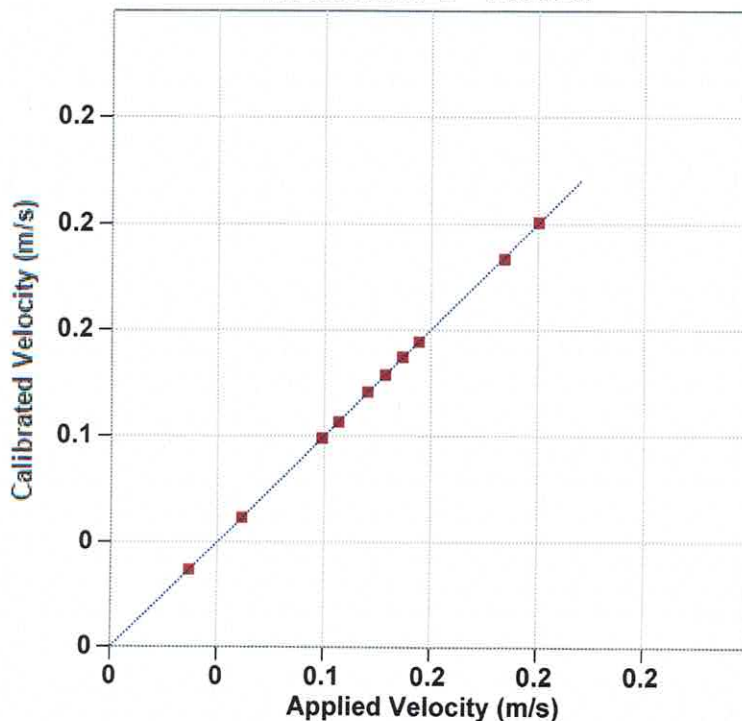
Ref Acc 2: LW423794! Cal on: 28Jul2022
10 g's/volt

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


Signed



LW485609: R² = 0.999941



Reference Velocity	S/N LW485609 Velocity
m/s	m/s
0.037	0.037
0.061	0.062
0.099	0.099
0.107	0.106
0.120	0.121
0.128	0.128
0.137	0.137
0.144	0.144
0.184	0.183
0.200	0.201
Maximum Acceleration: 23 g's	

Accelerometer Calibration Certificate

Pile Dynamics, Inc.



Calibrated by Pile Dynamics, Inc.

Calibration performed on **APR 03 2024**

Serial No: LW485615 Temperature: 21.3 °C

Model: PE Humidity: 36%

Calibrated on: Channel 3 on 8G 5161 LE

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

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

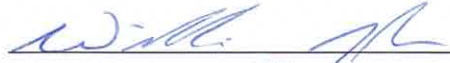
Reference accelerometer calibrations are traceable to the United States National Institute of Standards and Technology (NIST).

PDA CALIBRATION FACTOR

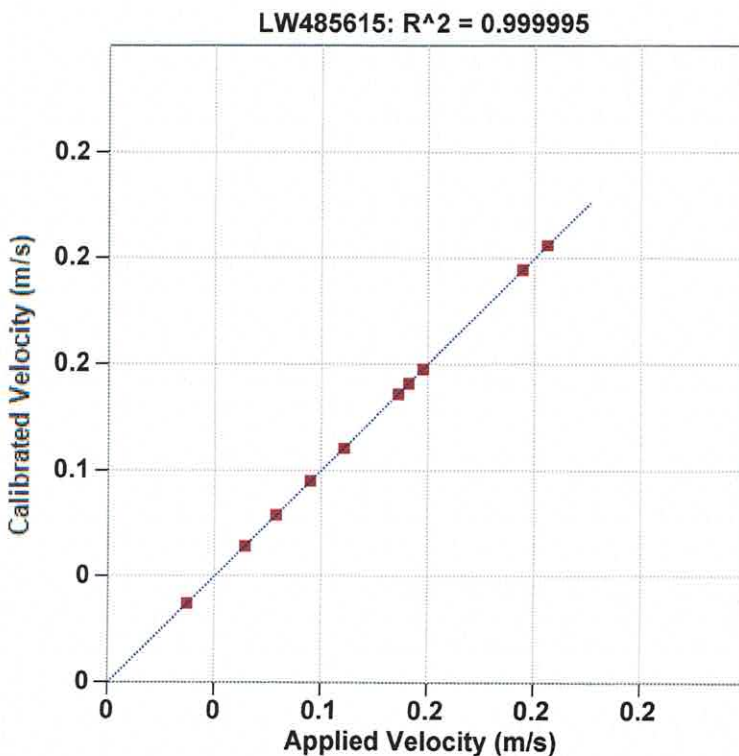
10.0 g's/volt

R²: 0.999995 [Chip programmed]

Operator: William Johnson



Signed



Reference Velocity	S/N LW485615 Velocity
m/s	m/s
0.037	0.037
0.064	0.064
0.079	0.079
0.095	0.095
0.111	0.111
0.136	0.136
0.141	0.141
0.148	0.148
0.194	0.195
0.206	0.206
Maximum Acceleration: 24 g's	

Accelerometer Calibration Certificate

Pile Dynamics, Inc.



Calibrated by Pile Dynamics, Inc.

Calibration performed on

APR 03 2024

Serial No: LW481050 Temperature: 21.3 °C

Model: PE Humidity: 36%

Calibrated on: Channel 3 on 8G 5161 LE

PDA CALIBRATION FACTOR

10.0 g's/volt

R²: 0.999985 [Chip programmed]

Operator: William Johnson

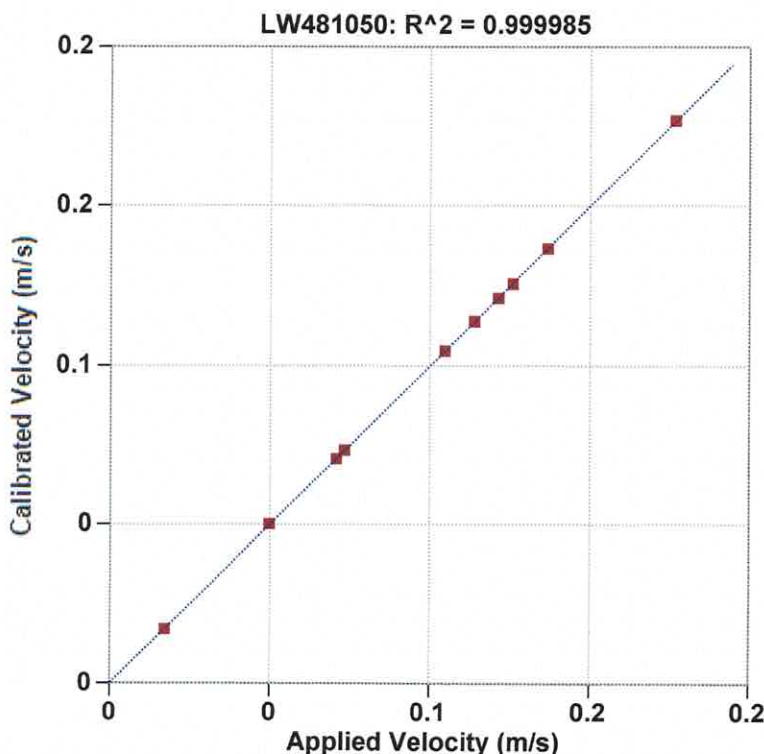
Ref Acc 1: LW423806! Cal on: 02Aug2022
10 g's/volt

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

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

William Johnson

Signed



Reference Velocity	S/N LW481050 Velocity
m/s	m/s
0.017	0.017
0.050	0.050
0.071	0.071
0.073	0.073
0.105	0.105
0.114	0.114
0.121	0.121
0.126	0.126
0.137	0.137
0.177	0.177

Maximum Acceleration: 20 g's



Certificate of Calibration

Pile Dynamics, Inc.

Transducer Model: PDI Strain Transducer

Serial Number: Z363

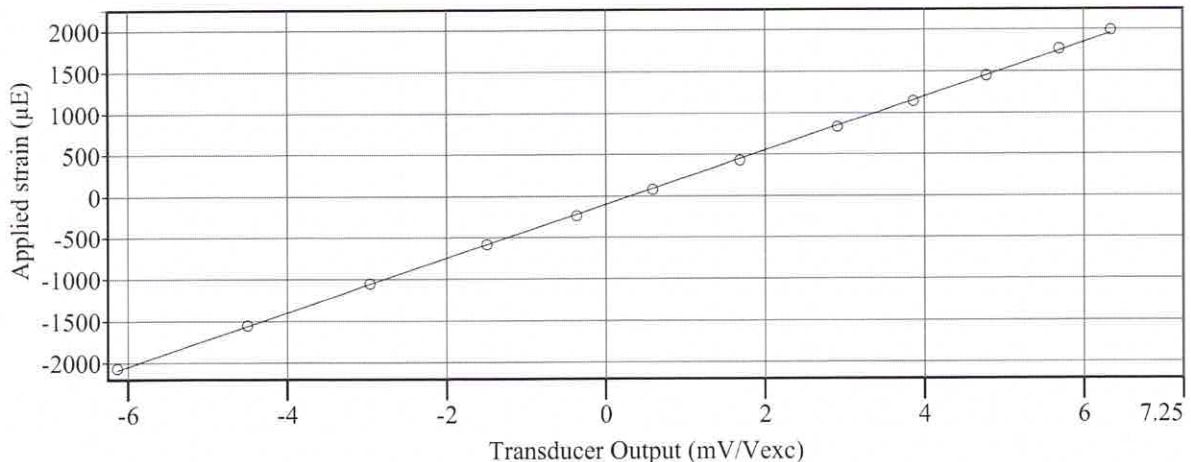
PDI Gage Factor: 93.7

Mean Linear Correlation Coefficient: 0.999810

Table 1: Representative Calibration Data

Applied strain (μE)	Gage Output (mV/Vexc)	Applied strain (μE)	Gage Output (mV/Vexc)
-2066.9	-6.132	426.5	1.682
-1548.6	-4.500	826.8	2.907
-1056.4	-2.960	1141.7	3.862
-584.0	-1.492	1450.1	4.780
-236.2	-0.369	1771.7	5.695
78.7	0.588	1992.6	6.342

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: Z363

Calibration Date: APR 03 2024





Certificate of Calibration

Pile Dynamics, Inc.

Transducer Model: PDI Strain Transducer

Serial Number: Z364

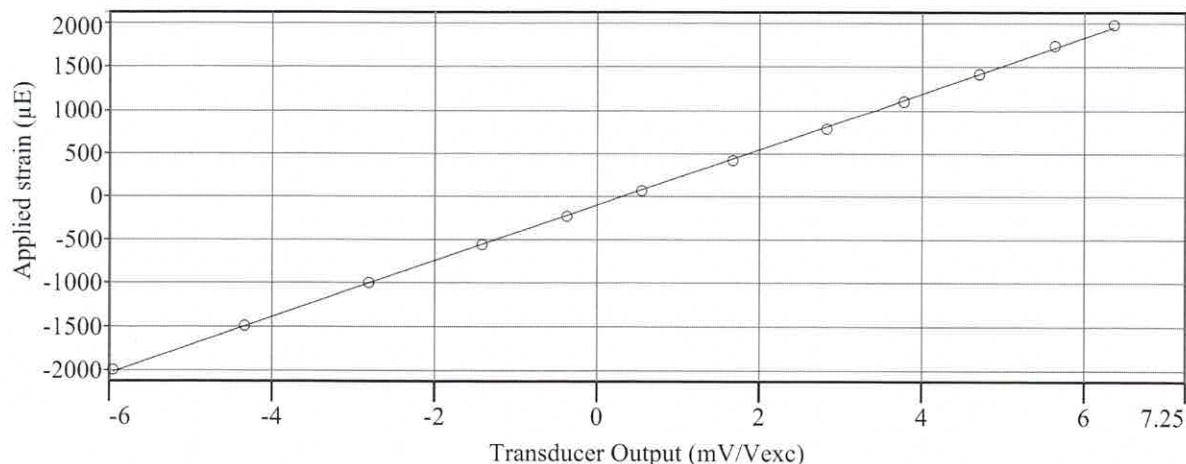
PDI Gage Factor: 93.1

Mean Linear Correlation Coefficient: 0.999799

Table 1: Representative Calibration Data

Applied strain (μE)	Gage Output (mV/Vexc)	Applied strain (μE)	Gage Output (mV/Vexc)
-1994.8	-5.956	419.9	1.670
-1489.5	-4.336	787.4	2.825
-997.4	-2.808	1102.4	3.778
-557.7	-1.413	1417.3	4.703
-229.7	-0.374	1741.0	5.635
65.6	0.551	1981.6	6.362

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: Z364

Calibration Date: APR 03 2024



Accelerometer Calibration Certificate

Pile Dynamics, Inc.



Calibrated by Pile Dynamics, Inc.

Calibration performed on

APR 03 2024

Serial No: LW485610 Temperature: 21.3 °C

Model: PE Humidity: 36%

Calibrated on: Channel 4 on 8G 5161 LE

PDA CALIBRATION FACTOR

10.0 g's/volt

R²: 0.999968 [Chip programmed]

Operator: William Johnson

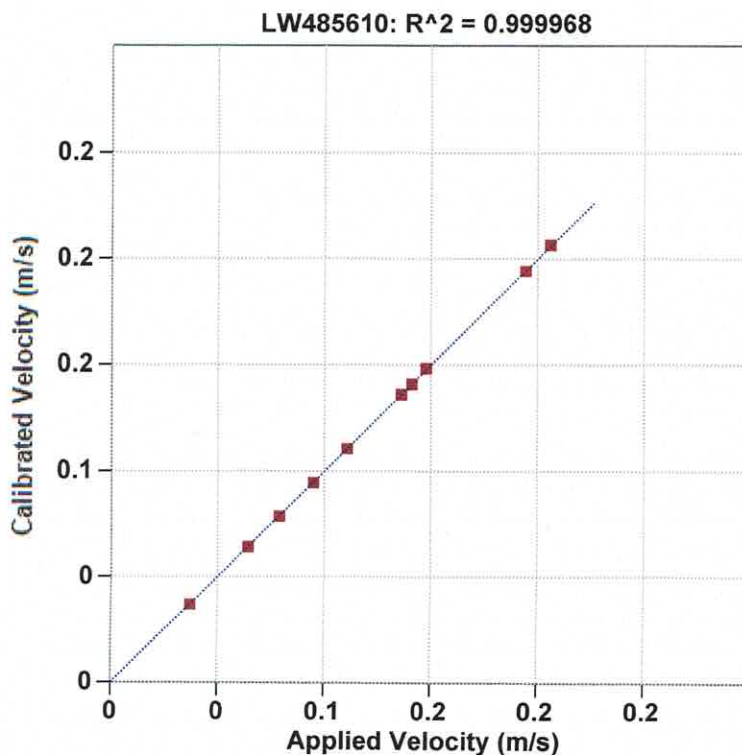
Ref Acc 1: LW423806! Cal on: 02Aug2022
10 g's/volt

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

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

William Johnson

Signed



Reference Velocity	S/N LW485610 Velocity
m/s	m/s
0.037	0.037
0.064	0.064
0.079	0.079
0.095	0.095
0.111	0.111
0.136	0.136
0.141	0.141
0.148	0.148
0.194	0.194
0.206	0.206
Maximum Acceleration: 24 g's	



Certificate of Calibration

Pile Dynamics, Inc.

Transducer Model: PDI Strain Transducer

Serial Number: Z623

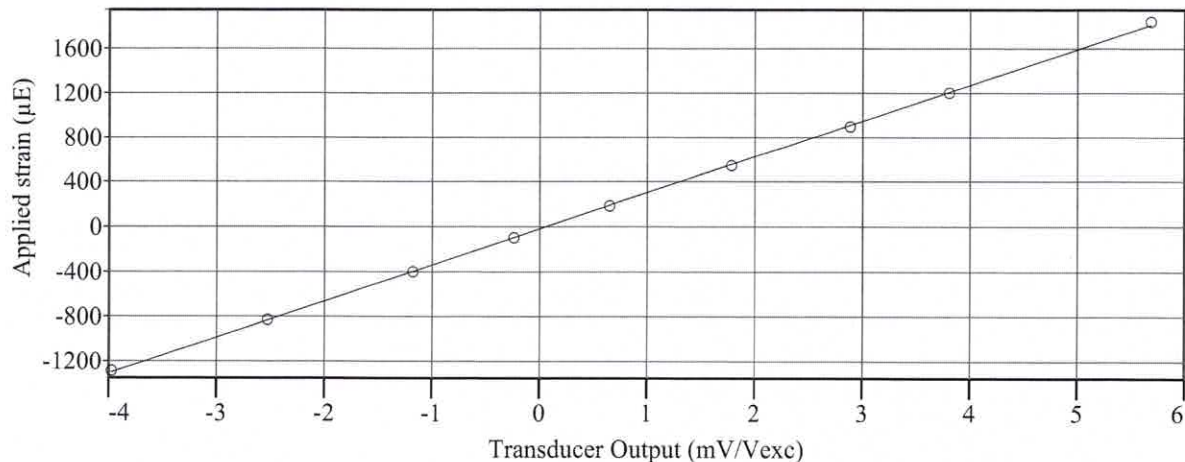
PDI Gage Factor: 94.5

Mean Linear Correlation Coefficient: 0.999827

Table 1: Representative Calibration Data

Applied strain (μE)	Gage Output (mV/Vexc)	Applied strain (μE)	Gage Output (mV/Vexc)
-1286.1	-3.975	544.6	1.781
-826.8	-2.526	899.0	2.886
-400.3	-1.177	1200.8	3.807
-98.4	-0.237	1839.5	5.680
183.7	0.648		

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: Z623

Calibration Date: APR 03 2024





Certificate of Calibration

Pile Dynamics, Inc.

Transducer Model: PDI Strain Transducer

Serial Number: Z624

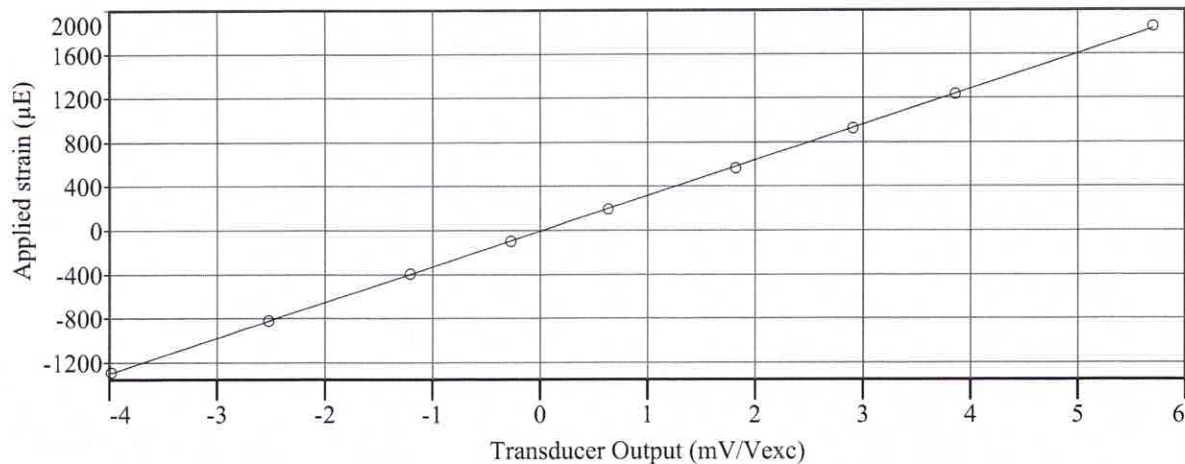
PDI Gage Factor: 94.7

Mean Linear Correlation Coefficient: 0.999909

Table 1: Representative Calibration Data

Applied strain (μE)	Gage Output (mV/Vexc)	Applied strain (μE)	Gage Output (mV/Vexc)
-1286.1	-3.983	564.3	1.816
-820.2	-2.522	925.2	2.909
-393.7	-1.206	1233.6	3.860
-98.4	-0.270	1850.4	5.698
190.3	0.634		

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: Z624

Calibration Date: _____

APR 03 2024





Certificate of Calibration

Pile Dynamics, Inc.

Transducer Model: PDI Strain Transducer

Serial Number: Z621

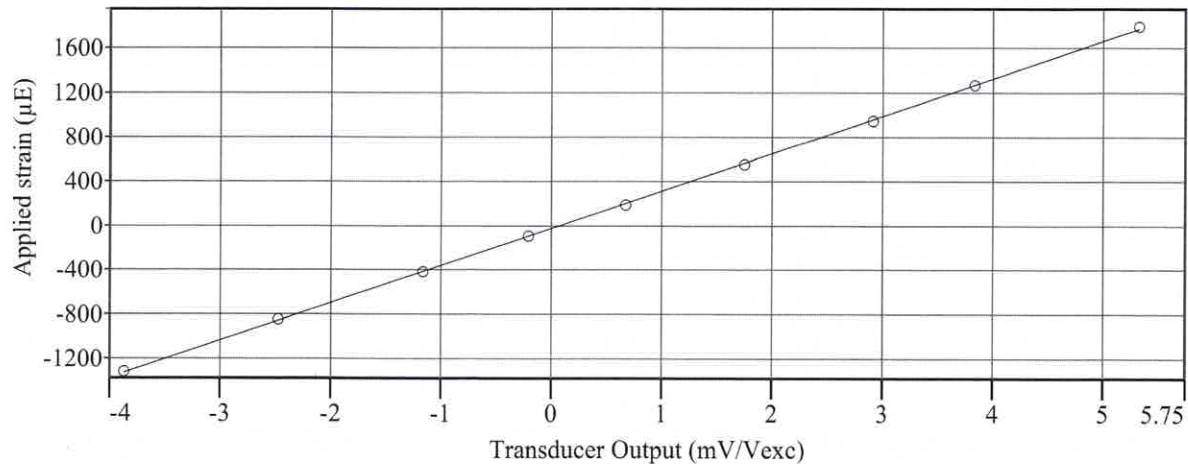
PDI Gage Factor: 98.7

Mean Linear Correlation Coefficient: 0.999854

Table 1: Representative Calibration Data

Applied strain (μE)	Gage Output (mV/Vexc)	Applied strain (μE)	Gage Output (mV/Vexc)
-1318.9	-3.873	551.2	1.747
-846.5	-2.474	944.9	2.912
-419.9	-1.163	1266.4	3.834
-91.9	-0.207	1791.3	5.325
190.3	0.675		

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: Z621

Calibration Date: APR 03 2024





Certificate of Calibration

Pile Dynamics, Inc.

Transducer Model: PDI Strain Transducer

Serial Number: Z620

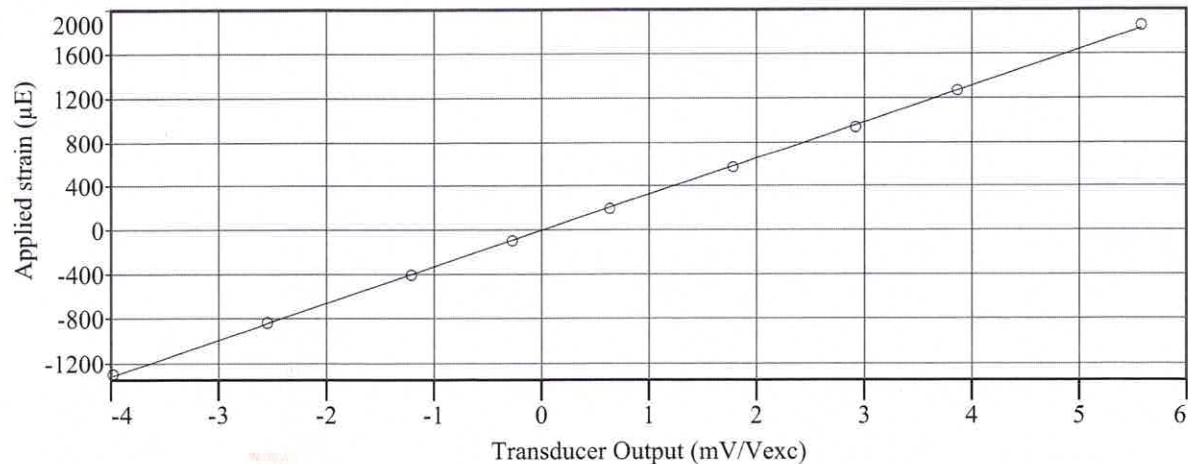
PDI Gage Factor: 96.4

Mean Linear Correlation Coefficient: 0.999795

Table 1: Representative Calibration Data

Applied strain (μE)	Gage Output (mV/Vexc)	Applied strain (μE)	Gage Output (mV/Vexc)
-1299.2	-3.981	570.9	1.780
-833.3	-2.547	938.3	2.919
-406.8	-1.209	1266.4	3.867
-98.4	-0.270	1857.0	5.575
190.3	0.634		

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: Z620

Calibration Date: APR 03 2024



Accelerometer Calibration Certificate

Pile Dynamics, Inc.



Calibrated by Pile Dynamics, Inc.

Calibration performed on APR 04 2024

Serial No: 75848 Temperature: 69.5 °C

Model: PE Humidity: 39%

Calibrated on: Channel 3 on 8G 5161 LE

PDA CALIBRATION FACTOR

959.3 g's/volt

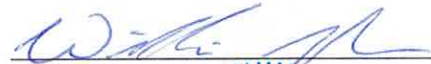
R²: 0.999911 [Chip programmed]

Operator: William Johnson

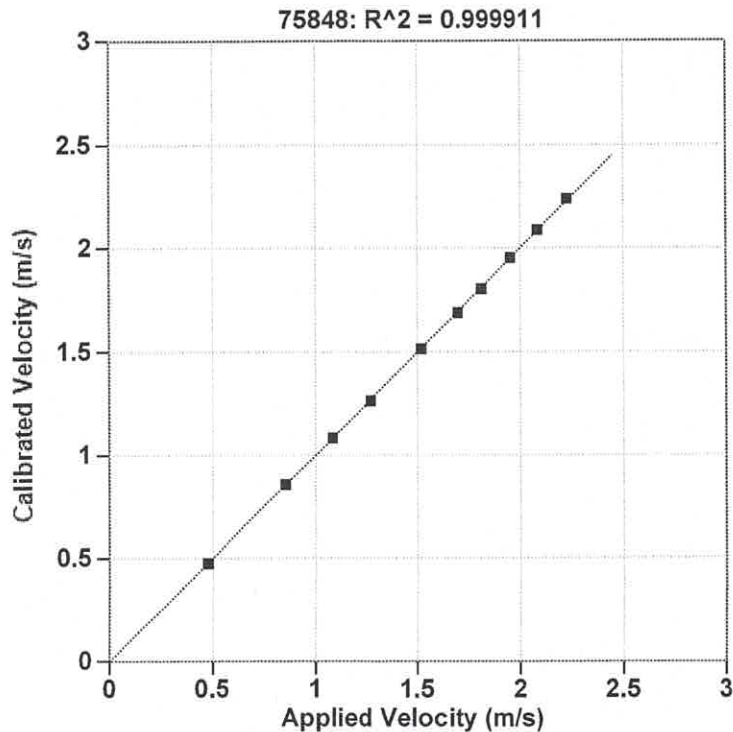
Ref Acc 1: 72517! Cal on: 24Mar2022
1049 g's/volt

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

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



Signed



Reference Velocity	S/N 75848 Velocity
m/s	m/s
0.477	0.474
0.855	0.857
1.081	1.083
1.269	1.263
1.518	1.513
1.691	1.686
1.806	1.801
1.950	1.950
2.083	2.086
2.226	2.237

Maximum Acceleration: 360 g's