



Certificate of Calibration

Pile Dynamics, Inc.

Transducer Model: PDI Strain Transducer

Serial Number: Z805

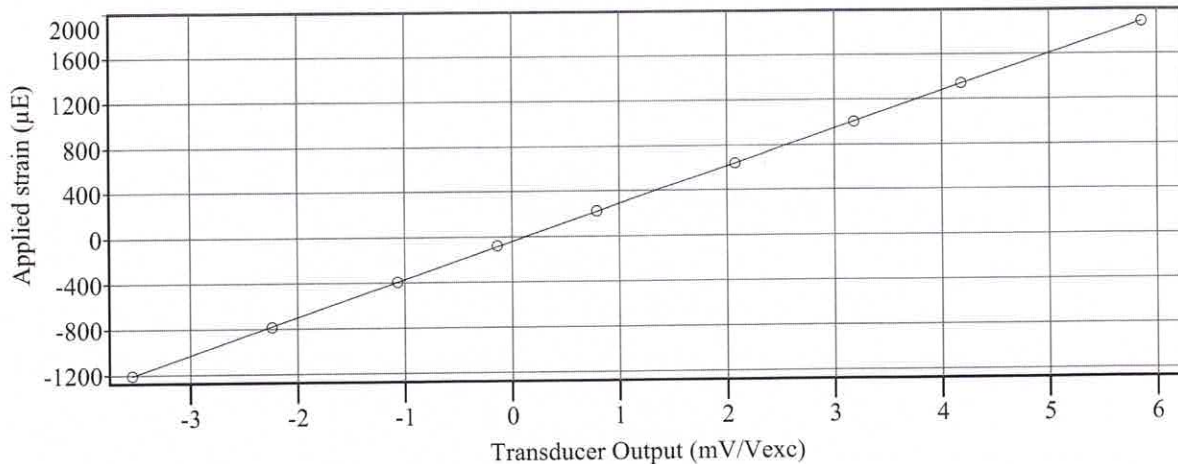
PDI Gage Factor: 95.2

Mean Linear Correlation Coefficient: 0.999982

Table 1: Representative Calibration Data

Applied strain (μE)	Gage Output (mV/Vexc)	Applied strain (μE)	Gage Output (mV/Vexc)
-1207.3	-3.541	643.0	2.077
-785.2	-2.237	1003.9	3.183
-393.7	-1.066	1338.6	4.182
-78.7	-0.137	1889.8	5.858
223.1	0.789		

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: Z805

Calibration Date: APR 11 2024





Certificate of Calibration

Pile Dynamics, Inc.

Transducer Model: PDI Strain Transducer

Serial Number: Z806

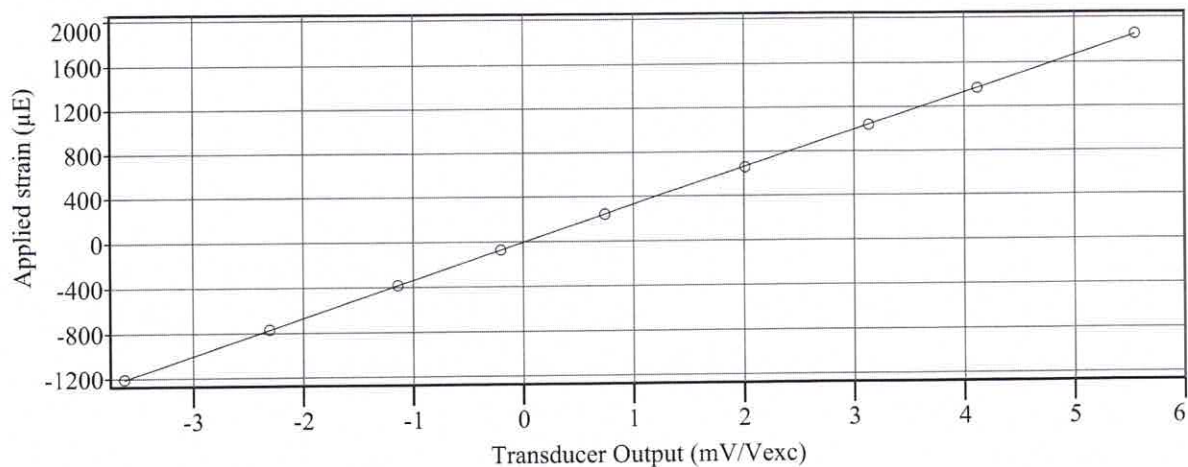
PDI Gage Factor: 96.4

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)
-1209.5	-3.625	662.7	2.013
-767.7	-2.304	1038.9	3.133
-382.8	-1.140	1371.4	4.119
-72.2	-0.202	1857.0	5.549
242.8	0.740		

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: Z806

Calibration Date: _____

APR 11 2024





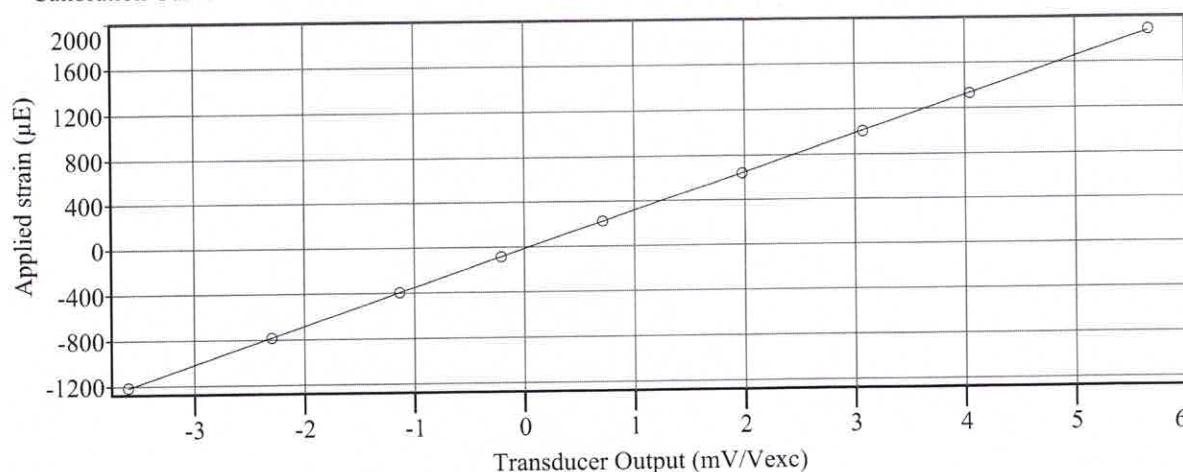
Certificate of Calibration

Pile Dynamics, Inc.
Transducer Model: PDI Strain Transducer
Serial Number: Z807
PDI Gage Factor: 96.4
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)
-1213.9	-3.601	643.0	1.976
-780.8	-2.297	1003.9	3.074
-393.7	-1.133	1332.0	4.045
-85.3	-0.210	1885.4	5.666
223.1	0.711		

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: Z807

Calibration Date: APR 11 2024





Certificate of Calibration

Pile Dynamics, Inc.

Transducer Model: PDI Strain Transducer

Serial Number: Z808

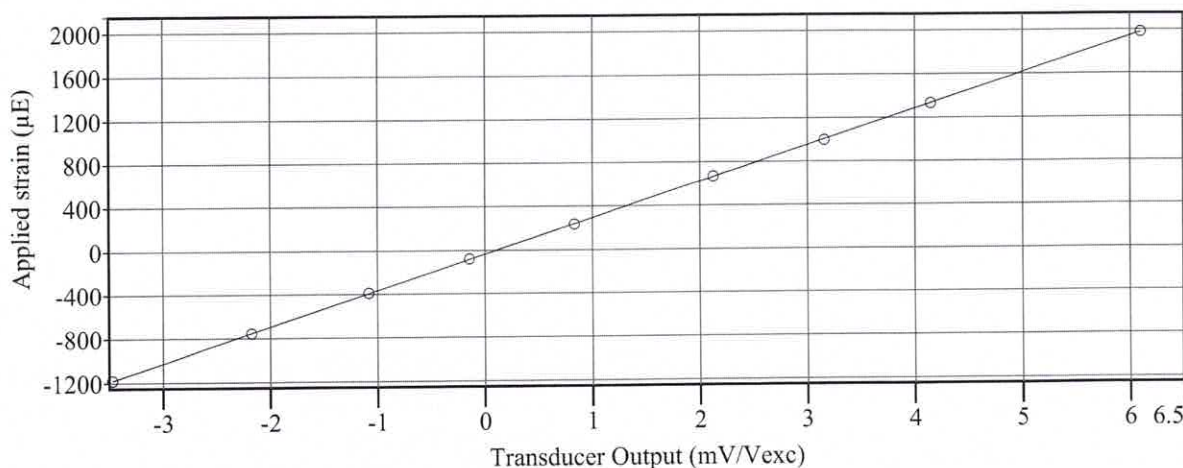
PDI Gage Factor: 95.3

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)
-1181.1	-3.469	669.3	2.124
-754.6	-2.174	997.4	3.158
-387.1	-1.080	1332.0	4.150
-78.7	-0.144	1981.6	6.100
236.2	0.834		

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: Z808

Calibration Date: APR 11 2024



Accelerometer Calibration Certificate

Pile Dynamics, Inc.



Calibrated by Pile Dynamics, Inc.
Calibration performed on

APR 11 2024

Serial No: K13811 Temperature: 22.7 °C
Model: PR Humidity: 27%
Calibrated on: Channel 4 on 8G 5161 LE

PDA CALIBRATION FACTOR

389.8 mv/5000g
(78.0 μ v/g)
R²: 0.999963 [Chip programmed]

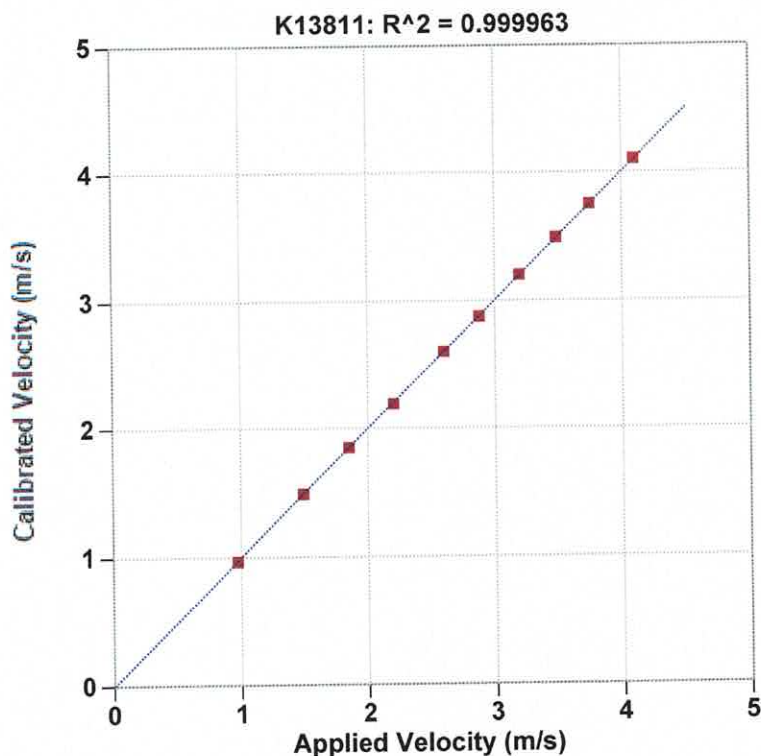
Ref Acc 1: 72505! Cal on: 24Mar2022
1035 g's/volt
Ref Acc 2: 72517! Cal on: 24Mar2022
1049 g's/volt

Operator: William Johnson

Signed



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



Reference Velocity	S/N K13811 Velocity
m/s	m/s
0.973	0.964
1.489	1.487
1.849	1.845
2.202	2.188
2.597	2.598
2.876	2.874
3.196	3.198
3.487	3.490
3.747	3.750
4.095	4.100

Maximum Acceleration: 886 g's

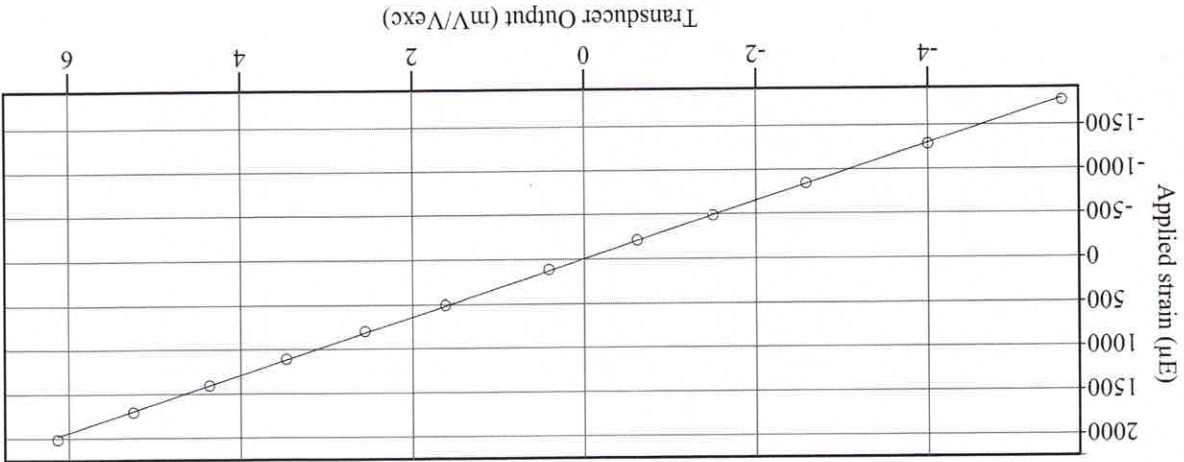
Certificate of Calibration

PDI Dynamics, Inc.
Transducer Model: PDI Strain Transducer
Serial Number: Z725
PDI Gage Factor: 93.4
Mean Linear Correlation Coefficient: 0.999791

Pile Dynamics, Inc.

Table 1: Representative Calibration Data

Applied strain (µE)	Gage Output (mV/Vexc)	Applied strain (µE)	Gage Output (mV/Vexc)
-1778.2	-5.558	505.2	1.620
-1286.1	-3.999	800.5	2.554
-846.5	-2.577	1108.9	3.472
-485.6	-1.493	1404.2	4.367
-210.0	-0.613	1706.0	5.253
111.5	0.419	2014.4	6.131



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.

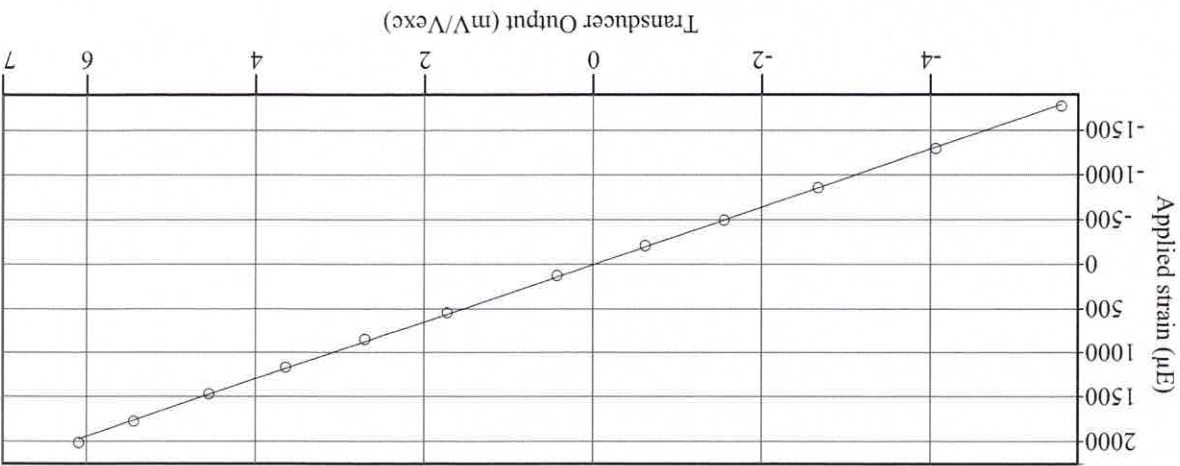


Calibrated By: VANNA OUK
PDI Gage: Z725
Calibration Date: APR 1 1 2024

Signature: *[Handwritten Signature]*

Table 1: Representative Calibration Data

Applied strain (µE)	Gage Output (mV/Vexc)	Applied strain (µE)	Gage Output (mV/Vexc)
-1771.7	-5.551	542.4	1.726
-1292.7	-4.062	853.0	2.702
-859.6	-2.666	1170.2	3.644
-498.7	-1.557	1469.8	4.550
-210.0	-0.619	1778.2	5.442
124.7	0.426	2014.4	6.094



PDI Strain Transducer Calibration System (PDI STCS)	1000HA
PDI STCS Serial Number:	0.9,0.0
Firmware version number:	3 inches (76.2mm)
Transducer Gage Length:	5.0 VDC
Excitation Voltage for Calibration:	

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.

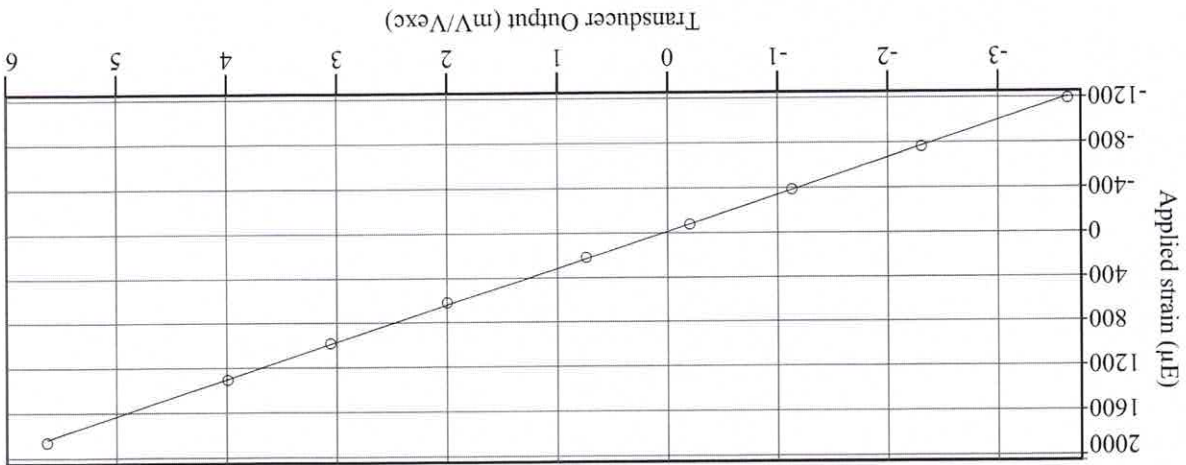
Certificate of Calibration

Pile Dynamics, Inc.
Transducer Model: PDI Strain Transducer
Serial Number: Z783
PDI Gage Factor: 94.9
Mean Linear Correlation Coefficient: 0.999784



Table 1: Representative Calibration Data

Applied strain (μE)	Gage Output (mV/Vexc)	Applied strain (μE)	Gage Output (mV/Vexc)
-1187.7	-3.633	623.4	1.999
-761.2	-2.306	984.3	3.058
-387.1	-1.130	1305.8	3.993
-78.7	-0.201	1861.3	5.631
216.5	0.739		



Calibration Curve

PDI Strain Transducer Calibration System (PDI STCS)	1000HA
PDI STCS Serial Number:	0.9,0.0
Firmware version number:	3 inches (76.2mm)
Transducer Gage Length:	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: Z783
Calibration Date:

APR 1 1 2024



Pile Dynamics, Inc.

Accelerometer Calibration Certificate

Pile Dynamics, Inc.

Calibrated by Pile Dynamics, Inc.

Calibration performed on APR 12 2024

Serial No: K13932

Model: PR

Humidity: 41%

Calibrated on: Channel 3 on 8G 5161 LE

Ref Acc 1: 782681

Cal on: 11Jan2024

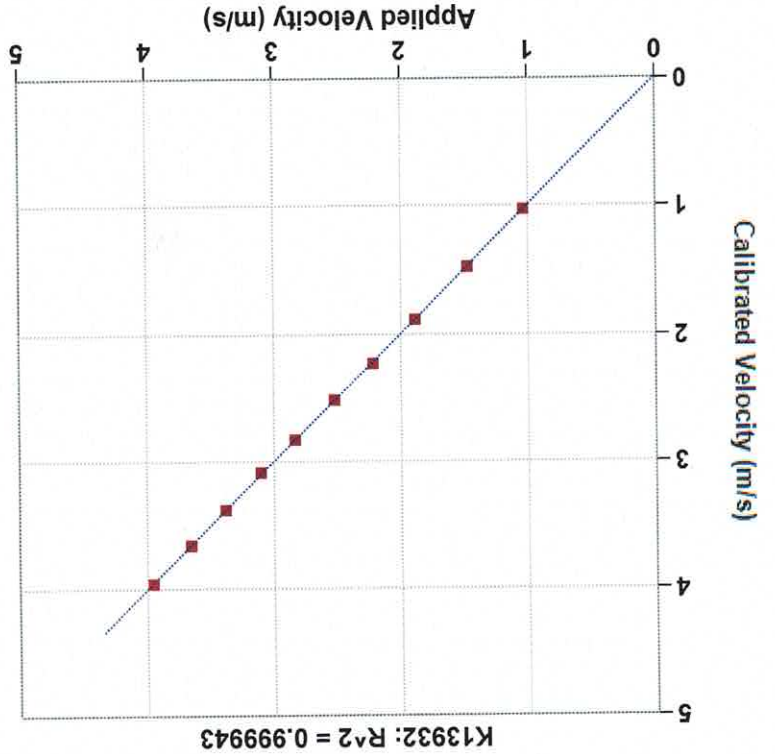
986 g's/volt

Ref Acc 2: 782701

Cal on: 11Jan2024

971 g's/volt

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



PDA CALIBRATION FACTOR

371.1 mv/5000g

(74.2 μ v/g)

R²: 0.999943 [Chip programmed]

Operator: William Johnson

Signed



Reference Velocity m/s	S/N K13932 Velocity m/s
1.036	1.033
1.474	1.477
1.885	1.885
2.220	2.232
2.523	2.518
2.834	2.832
3.105	3.090
3.383	3.383
3.657	3.657
3.952	3.960

Maximum Acceleration: 837 g's

Accelerometer Calibration Certificate

Pile Dynamics, Inc.

Calibrated by Pile Dynamics, Inc.
Calibration performed on

APR 12 2024

Serial No: K13933

Model: PR

Humidity: 41%

Calibrated on: Channel 3 on 8G 5161 LE

Ref Acc 1: 782681

Cal on:

11Jan2024

986 g's/volt

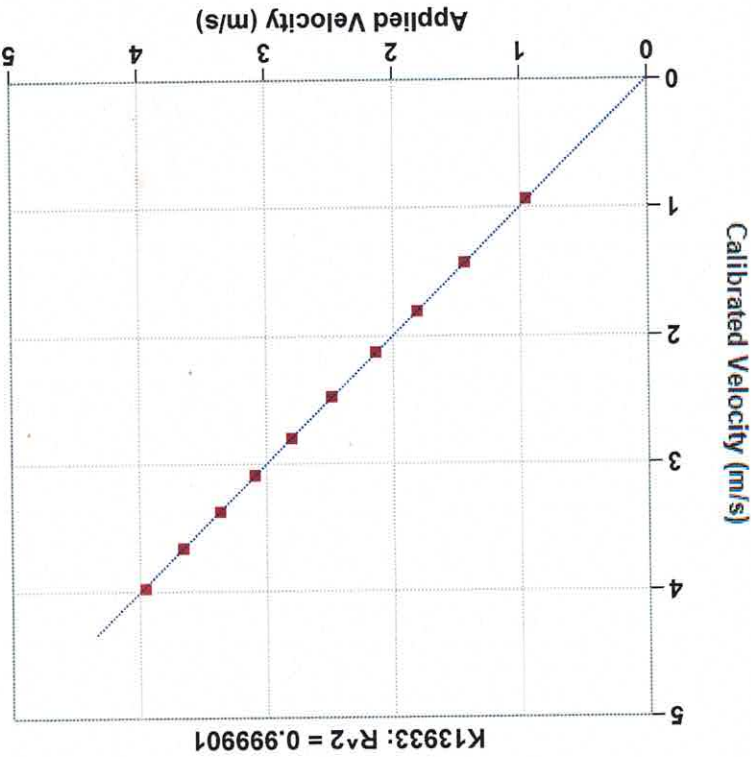
Ref Acc 2: 782701

Cal on:

11Jan2024

971 g's/volt

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



Reference Velocity	m/s	S/N K13933
3.956	3.973	
3.657	3.659	
3.367	3.373	
3.092	3.087	
2.802	2.802	
2.486	2.478	
2.141	2.128	
1.808	1.806	
1.438	1.428	
0.952	0.938	
	m/s	
	Maximum Acceleration: 838 g's	



Signed

Operator: William Johnson

359.5 mv/5000g
(71.9 μ v/g)
R²: 0.999901 [Chip programmed]

PDA CALIBRATION FACTOR

Accelerometer Calibration Certificate

Pile Dynamics, Inc.

Calibrated by Pile Dynamics, Inc.
Calibration performed on

APR 12 2024

Serial No: K13934 Temperature: 23.0 °C Model: PR Humidity: 41% Calibrated on: Channel 4 on 8G 5161 LE

360.0 mv/5000g
(72.0 μ v/g)
R²: 0.999907 [Chip programmed]

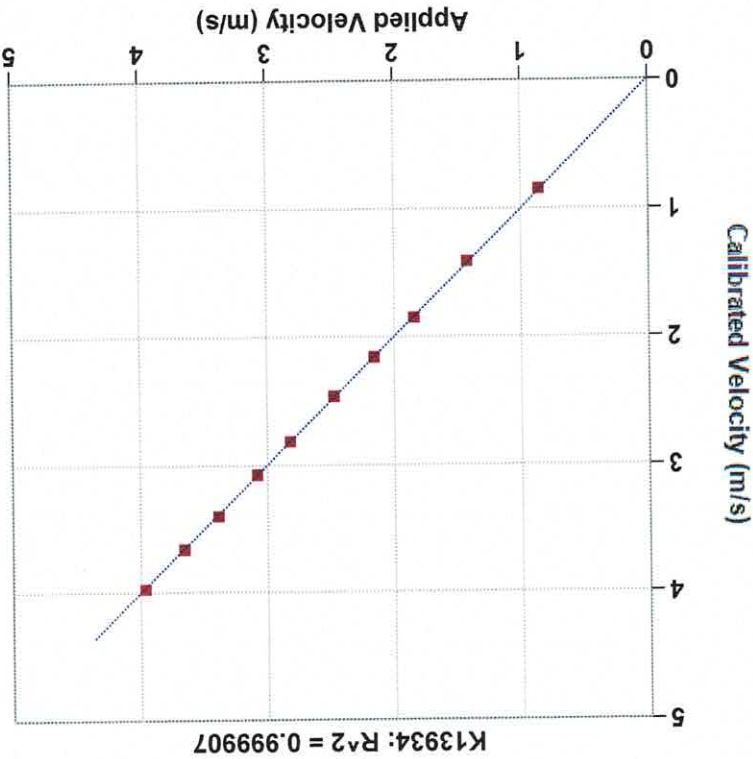
Operator: William Johnson

Signed 



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

Ref Acc 1:	782681	Cal on:	11Jan2024
Ref Acc 2:	782701	Cal on:	11Jan2024
	986 g's/volt		
	971 g's/volt		



Reference Velocity	S/N K13934 Velocity
m/s	m/s
0.857	0.844
1.423	1.409
1.841	1.848
2.157	2.156
2.474	2.461
2.817	2.814
3.079	3.072
3.388	3.397
3.656	3.660
3.964	3.974

Maximum Acceleration: 837 g's