

GEOKon.

LP - 50 UL

12,58

Vibrating Wire Pressure Transducer Calibration ReportModel Number: 4500SH-5 MPaDate of Calibration: December 29, 2023

This calibration has been verified/validated as of 01/26/2024

Serial Number: 2329106Temperature: 21.50 °CCalibration Instruction: CI-Pressure Transducer (4 MPa~50 MPa) Barometric Pressure: 982 mbarCable Length: 27 metersTechnician: J. B. S.

Applied Pressure (MPa)	Gauge Reading 1st Cycle	Gauge Reading 2nd Cycle	Average Gauge Reading	Calculated Pressure (Linear)	Error Linear (%FS)	Calculated Pressure (Polynomial)	Error Polynomial (%FS)
0.0	8918	8918	8918	0.008	0.16	-0.003	-0.05
1.0	8166	8167	8167	1.002	0.04	1.005	0.09
2.0	7419	7419	7419	1.991	-0.19	2.000	0.00
3.0	6665	6664	6665	2.989	-0.23	2.998	-0.04
4.0	5903	5904	5904	3.995	-0.10	3.998	-0.04
5.0	5133	5136	5135	5.012	0.24	5.002	0.03

(MPa) Linear Gauge Factor (G): -0.001323 (MPa/ digit)Polynomial Gauge factors: A: -5.844E-09 B: -0.001241 C: _____Thermal Factor (K): 0.0008482 (MPa/ °C)Calculate C by setting P=0 and R₁ = initial field zero reading into the polynomial equation(psi) Linear Gauge Factor (G): -0.1918 (psi/ digit)Polynomial Gauge Factors: A: -8.476E-07 B: -0.1799 C: _____Thermal Factor (K): 0.1230 (psi/ °C)Calculate C by setting P=0 and R₁ = initial field zero reading into the polynomial equationCalculated Pressures: Linear, P = G(R₁ - R₀) + K(T₁ - T₀) - (S₁ - S₀)*Polynomial, P = AR₁² + BR₁ + C + K(T₁ - T₀) - (S₁ - S₀)*

*Barometric pressures expressed in MPa or psi. Barometric compensation is not required with vented transducers.

Factory Zero Reading: 8919 Temperature: 21.3 °C Barometer: 998.3 mbarThe above instrument was found to be in tolerance in all operating ranges.
The above named instrument has been calibrated by comparison with standards traceable to the NIST, in compliance with ANSI Z540-1.

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LS - TOUL

9/22 m

Vibrating Wire Pressure Transducer Calibration ReportModel Number: 4500SX-2 MPaDate of Calibration: January 09, 2024

This calibration has been verified/validated as of 01/29/2024

Serial Number: 2250980Temperature: 19.80 °CCalibration Instruction: CI-Pressure Transducer (7 kPa~3.5 MPa) Barometric Pressure: 1000.6 mbarCable Length: 24 metersTechnician: J. B. C. S.

Applied Pressure (MPa)	Gauge Reading 1st Cycle	Gauge Reading 2nd Cycle	Average Gauge Reading	Calculated Pressure (Linear)	Error Linear (%FS)	Calculated Pressure (Polynomial)	Error Polynomial (%FS)
0.0	8688	8688	8688	0.005	0.25	0.000	-0.01
0.4	7976	7976	7976	0.400	-0.03	0.400	0.02
0.8	7260	7260	7260	0.796	-0.19	0.800	0.01
1.2	6539	6539	6539	1.196	-0.21	1.200	-0.01
1.6	5812	5811	5812	1.599	-0.06	1.600	-0.01
2.0	5078	5078	5078	2.005	0.27	2.000	0.01

(MPa) Linear Gauge Factor (G): -0.0005541 (MPa/ digit)

Polynomial Gauge factors:

A: -2.935E-09B: -0.0005137

C: _____

Thermal Factor (K): 0.0007109 (MPa/ °C)Calculate C by setting P=0 and R₁ = initial field zero reading into the polynomial equation(psi) Linear Gauge Factor (G): -0.08037 (psi/ digit)

Polynomial Gauge Factors:

A: -4.257E-07B: -0.07451

C: _____

Thermal Factor (K): 0.1031 (psi/ °C)Calculate C by setting P=0 and R₁ = initial field zero reading into the polynomial equation

Calculated Pressures:

Linear, $P = G(R_1 - R_0) + K(T_1 - T_0) - (S_1 - S_0)^*$ Polynomial, $P = AR_1^2 + BR_1 + C + K(T_1 - T_0) - (S_1 - S_0)^*$

*Barometric pressures expressed in MPa or psi. Barometric compensation is not required with vented transducers.

Factory Zero Reading: 8690Temperature: 22.4 °CBarometer: 989.6 mbar

The above instrument was found to be in tolerance in all operating ranges.
 The above named instrument has been calibrated by comparison with standards traceable to the NIST, in compliance with ANSI Z540-1.

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48 Spencer St. Lebanon, NH 03766 USA

LP-SOUL

7,72 m

Vibrating Wire Pressure Transducer Calibration Report

Model Number: 4500SX-700 kPaDate of Calibration: October 22, 2015

This calibration has been verified/validated as of 10/29/2015

Serial Number: 1532847Temperature: 23.50 °CCalibration Instruction: VW Pressure TransducersBarometric Pressure: 993.6 mbarCable Length: 20 metersTechnician: K. Rogers

Applied Pressure (kPa)	Gage Reading 1st Cycle	Gage Reading 2nd Cycle	Average Gage Reading	Calculated Pressure (Linear)	Error Linear (%FS)	Calculated Pressure (Polynomial)	Error Polynomial (%FS)
0.0	8843	8843	8843	1.508	0.22	-0.024	0.00
140.0	8017	8018	8018	139.8	-0.02	140.1	0.01
280.0	7188	7188	7188	278.9	-0.16	280.0	0.00
420.0	6352	6352	6352	419.0	-0.15	420.1	0.01
560.0	5512	5512	5512	559.7	-0.04	560.0	-0.01
700.0	4665	4666	4666	701.6	0.22	700.1	0.00

(kPa) Linear Gage Factor (G): -0.1676 (kPa/ digit)Polynomial Gage factors: A: -6.298E-07 B: -0.1591 C: _____Thermal Factor (K): 0.01852 (kPa/ °C)Calculate C by setting P=0 and R₁ = initial field zero reading into the polynomial equation(psi) Linear Gage Factor (G): -0.02431 (psi/ digit)Polynomial Gage Factors: A: -9.134E-08 B: -0.02307 C: _____Thermal Factor (K): 0.002687 (psi/ °C)Calculate C by setting P=0 and R₁ = initial field zero reading into the polynomial equationCalculated Pressures: Linear, P = G(R₁ - R₀) + K(T₁ - T₀) - (S₁ - S₀)*Polynomial, P = AR₁² + BR₁ + C + K(T₁ - T₀) - (S₁ - S₀)*

*Barometric pressures expressed in kPa or psi. Barometric compensation is not required with vented transducers.

Factory Zero Reading: 8825 Temperature: 20.6 °C Barometer: 1009.5 mbarThe above instrument was found to be in tolerance in all operating ranges.
The above named instrument has been calibrated by comparison with standards traceable to the NIST, in compliance with ANSI Z540-1.

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L5-49 DC

8/64

Vibrating Wire Pressure Transducer Calibration ReportModel Number: 4500SH-5 MPaDate of Calibration: December 29, 2023

This calibration has been verified/validated as of 01/26/2024

Serial Number: 2329107Temperature: 21.50 °CCalibration Instruction: CI-Pressure Transducer (4 MPa~50 MPa) Barometric Pressure: 982 mbarCable Length: 23 metersTechnician: JBC

Applied Pressure (MPa)	Gauge Reading 1st Cycle	Gauge Reading 2nd Cycle	Average Gauge Reading	Calculated Pressure (Linear)	Error Linear (%FS)	Calculated Pressure (Polynomial)	Error Polynomial (%FS)
0.0	8680	8680	8680	0.013	0.26	-0.001	-0.02
1.0	7934	7934	7934	0.999	-0.01	1.002	0.03
2.0	7185	7185	7185	1.990	-0.21	2.000	0.00
3.0	6430	6430	6430	2.988	-0.25	2.998	-0.03
4.0	5666	5666	5666	3.998	-0.05	4.000	0.01
5.0	4896	4898	4897	5.014	0.29	5.000	0.00

(MPa) Linear Gauge Factor (G): -0.001322 (MPa/ digit)Polynomial Gauge factors: A: -7.22E-09 B: -0.001224 C: _____Thermal Factor (K): 0.0005818 (MPa/ °C)Calculate C by setting P=0 and R₁ = initial field zero reading into the polynomial equation(psi) Linear Gauge Factor (G): -0.1917 (psi/ digit)Polynomial Gauge Factors: A: -1.047E-06 B: -0.1775 C: _____Thermal Factor (K): 0.08439 (psi/ °C)Calculate C by setting P=0 and R₁ = initial field zero reading into the polynomial equation

Calculated Pressures:

Linear, P = G(R₁ - R₀) + K(T₁ - T₀) - (S₁ - S₀)*Polynomial, P = AR₁² + BR₁ + C + K(T₁ - T₀) - (S₁ - S₀)*

*Barometric pressures expressed in MPa or psi. Barometric compensation is not required with vented transducers.

Factory Zero Reading: 8687 Temperature: 21.7 °C Barometer: 998.3 mbar

The above instrument was found to be in tolerance in all operating ranges.
 The above named instrument has been calibrated by comparison with standards traceable to the NIST, in compliance with ANSI Z540-1.

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L5-498C 7,67m

Vibrating Wire Pressure Transducer Calibration ReportModel Number: 4500SX-2 MPaDate of Calibration: January 09, 2024

This calibration has been verified/validated as of 01/29/2024

Serial Number: 2250981Temperature: 19.80 °CCalibration Instruction: CI-Pressure Transducer (7 kPa~3.5 MPa) Barometric Pressure: 1000.6 mbarCable Length: 22 metersTechnician: J. B. Goss

Applied Pressure (MPa)	Gauge Reading 1st Cycle	Gauge Reading 2nd Cycle	Average Gauge Reading	Calculated Pressure (Linear)	Error Linear (%FS)	Calculated Pressure (Polynomial)	Error Polynomial (%FS)
0.0	8501	8501	8501	0.006	0.30	0.000	0.00
0.4	7784	7784	7784	0.399	-0.06	0.400	0.01
0.8	7062	7062	7062	0.794	-0.28	0.800	-0.02
1.2	6331	6332	6332	1.195	-0.27	1.200	0.00
1.6	5594	5594	5594	1.599	-0.06	1.600	0.02
2.0	4851	4851	4851	2.006	0.30	2.000	-0.01

(MPa) Linear Gauge Factor (G): -0.0005479 (MPa/ digit)Polynomial Gauge factors: A: -3.544E-09 B: -0.0005006 C: _____Thermal Factor (K): 0.0009408 (MPa/ °C)Calculate C by setting P=0 and R₁ = initial field zero reading into the polynomial equation(psi) Linear Gauge Factor (G): -0.07947 (psi/ digit)Polynomial Gauge Factors: A: -5.141E-07 B: -0.07260 C: _____Thermal Factor (K): 0.1364 (psi/ °C)Calculate C by setting P=0 and R₁ = initial field zero reading into the polynomial equationCalculated Pressures: Linear, P = G(R₁ - R₀) + K(T₁ - T₀) - (S₁ - S₀)*Polynomial, P = AR₁² + BR₁ + C + K(T₁ - T₀) - (S₁ - S₀)*

*Barometric pressures expressed in MPa or psi. Barometric compensation is not required with vented transducers.

Factory Zero Reading: 8495 Temperature: 21.8 °C Barometer: 989.6 mbarThe above instrument was found to be in tolerance in all operating ranges.
The above named instrument has been calibrated by comparison with standards traceable to the NIST, in compliance with ANSI Z540-1.



48 Spencer St. Lebanon, NH 03766 USA

65-49DC

5/6 P~

Vibrating Wire Pressure Transducer Calibration Report

Model Number: 4500SX-700 kPaDate of Calibration: October 22, 2015

This calibration has been verified/validated as of 10/29/2015

Serial Number: 1532846Temperature: 23.50 °CCalibration Instruction: VW Pressure TransducersBarometric Pressure: 993.6 mbarCable Length: 20 metersTechnician: K. Rogers

Applied Pressure (kPa)	Gage Reading 1st Cycle	Gage Reading 2nd Cycle	Average Gage Reading	Calculated Pressure (Linear)	Error Linear (%FS)	Calculated Pressure (Polynomial)	Error Polynomial (%FS)
0.0	8934	8934	8934	1.645	0.24	0.032	0.00
140.0	8095	8095	8095	139.6	-0.05	139.9	-0.01
280.0	7249	7250	7250	278.7	-0.19	280.0	0.00
420.0	6398	6398	6398	418.7	-0.18	420.1	0.01
560.0	5541	5541	5541	559.7	-0.05	560.0	0.00
700.0	4678	4678	4678	701.6	0.23	700.0	0.00

(kPa) Linear Gage Factor (G): -0.1645 (kPa/ digit)Polynomial Gage factors: A: -6.723E-07 B: -0.1553 C: _____Thermal Factor (K): 0.01831 (kPa/ °C)Calculate C by setting P=0 and R₁ = initial field zero reading into the polynomial equation(psi) Linear Gage Factor (G): -0.02385 (psi/ digit)Polynomial Gage Factors: A: -9.751E-08 B: -0.02253 C: _____Thermal Factor (K): 0.002655 (psi/ °C)Calculate C by setting P=0 and R₁ = initial field zero reading into the polynomial equationCalculated Pressures: Linear, P = G(R₁ - R₀) + K(T₁ - T₀) - (S₁ - S₀)*Polynomial, P = AR₁² + BR₁ + C + K(T₁ - T₀) - (S₁ - S₀)*

*Barometric pressures expressed in kPa or psi. Barometric compensation is not required with vented transducers.

Factory Zero Reading: 8924 Temperature: 20.8 °C Barometer: 1009.5 mbar

The above instrument was found to be in tolerance in all operating ranges.
 The above named instrument has been calibrated by comparison with standards traceable to the NIST, in compliance with ANSI Z540-1.

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L5-37 UD

22,74

Vibrating Wire Pressure Transducer Calibration ReportModel Number: 4500SH-5 MPaDate of Calibration: December 29, 2023

This calibration has been verified/validated as of 01/26/2024

Serial Number: 2329104Temperature: 21.50 °CCalibration Instruction: CI-Pressure Transducer (4 MPa~50 MPa) Barometric Pressure: 982 mbarCable Length: 40 metersTechnician: J. B. C. S.

Applied Pressure (MPa)	Gauge Reading 1st Cycle	Gauge Reading 2nd Cycle	Average Gauge Reading	Calculated Pressure (Linear)	Error Linear (%FS)	Calculated Pressure (Polynomial)	Error Polynomial (%FS)
0.0	8733	8733	8733	0.005	0.11	-0.001	-0.03
1.0	7993	7994	7994	1.001	0.02	1.003	0.05
2.0	7256	7256	7256	1.994	-0.13	2.000	0.00
3.0	6515	6514	6515	2.992	-0.16	2.998	-0.04
4.0	5766	5767	5767	3.999	-0.03	4.001	0.01
5.0	5017	5018	5018	5.007	0.14	5.000	0.00

(MPa) Linear Gauge Factor (G): -0.001346 (MPa/ digit)Polynomial Gauge factors: A: -3.897E-09 B: -0.001293 C: _____Thermal Factor (K): 0.0004011 (MPa/ °C)Calculate C by setting P=0 and R₁ = initial field zero reading into the polynomial equation(psi) Linear Gauge Factor (G): -0.1952 (psi/ digit)Polynomial Gauge Factors: A: -5.653E-07 B: -0.1875 C: _____Thermal Factor (K): 0.05818 (psi/ °C)Calculate C by setting P=0 and R₁ = initial field zero reading into the polynomial equationCalculated Pressures: Linear, P = G(R₁ - R₀) + K(T₁ - T₀) - (S₁ - S₀)*Polynomial, P = AR₁² + BR₁ + C + K(T₁ - T₀) - (S₁ - S₀)*

*Barometric pressures expressed in MPa or psi. Barometric compensation is not required with vented transducers.

Factory Zero Reading: 8735 Temperature: 21.5 °C Barometer: 998.3 mbarThe above instrument was found to be in tolerance in all operating ranges.
The above named instrument has been calibrated by comparison with standards traceable to the NIST, in compliance with ANSI Z540-1.

Vibrating Wire Pressure Transducer Calibration ReportModel Number: 4500SX-2 MPaDate of Calibration: January 09, 2024

This calibration has been verified/validated as of 01/29/2024

Serial Number: 2250756Temperature: 19.80 °CCalibration Instruction: CI-Pressure Transducer (7 kPa~3.5 MPa) Barometric Pressure: 1000.6 mbarCable Length: 38 metersTechnician: J. B. C. S.

Applied Pressure (MPa)	Gauge Reading 1st Cycle	Gauge Reading 2nd Cycle	Average Gauge Reading	Calculated Pressure (Linear)	Error Linear (%FS)	Calculated Pressure (Polynomial)	Error Polynomial (%FS)
0.0	8274	8274	8274	0.005	0.25	0.000	-0.01
0.4	7555	7555	7555	0.399	-0.04	0.400	0.02
0.8	6832	6832	6832	0.796	-0.21	0.800	0.00
1.2	6103	6103	6103	1.196	-0.22	1.200	0.00
1.6	5368	5369	5369	1.599	-0.07	1.600	-0.01
2.0	4627	4627	4627	2.005	0.27	2.000	0.01

(MPa) Linear Gauge Factor (G): -0.0005485 (MPa/ digit)Polynomial Gauge factors: A: -2.939E-09 B: -0.0005106 C: _____Thermal Factor (K): 0.0007375 (MPa/ °C)Calculate C by setting P=0 and R₁ = initial field zero reading into the polynomial equation(psi) Linear Gauge Factor (G): -0.07955 (psi/ digit)Polynomial Gauge Factors: A: -4.262E-07 B: -0.07405 C: _____Thermal Factor (K): 0.1070 (psi/ °C)Calculate C by setting P=0 and R₁ = initial field zero reading into the polynomial equationCalculated Pressures: Linear, P = G(R₁ - R₀) + K(T₁ - T₀) - (S₁ - S₀)*Polynomial, P = AR₁² + BR₁ + C + K(T₁ - T₀) - (S₁ - S₀)*

*Barometric pressures expressed in MPa or psi. Barometric compensation is not required with vented transducers.

Factory Zero Reading: 8274 Temperature: 23.3 °C Barometer: 989.6 mbar

The above instrument was found to be in tolerance in all operating ranges.
 The above named instrument has been calibrated by comparison with standards traceable to the NIST, in compliance with ANSI Z540-1.

L5-37 UD A/67

Vibrating Wire Pressure Transducer Calibration ReportModel Number: 4500SX-700 kPaDate of Calibration: January 11, 2024

This calibration has been verified/validated as of 01/26/2024

Serial Number: 2329895Temperature: 20.60 °CCalibration Instruction: CI-Pressure Transducer (7 kPa~3.5 MPa) Barometric Pressure: 986.8 mbarCable Length: 35 metersTechnician: R. Judd

Applied Pressure (kPa)	Gauge Reading 1st Cycle	Gauge Reading 2nd Cycle	Average Gauge Reading	Calculated Pressure (Linear)	Error Linear (%FS)	Calculated Pressure (Polynomial)	Error Polynomial (%FS)
0.0	8790	8790	8790	2.337	0.33	0.068	0.01
140.0	8028	8028	8028	139.3	-0.10	139.8	-0.04
280.0	7254	7254	7254	278.4	-0.22	280.3	0.04
420.0	6477	6477	6477	418.1	-0.28	420.0	0.00
560.1	5691	5691	5691	559.4	-0.10	559.9	-0.02
700.0	4895	4896	4896	702.4	0.34	700.1	0.01

(kPa) Linear Gauge Factor (G): -0.1797 (kPa/ digit)Polynomial Gauge factors: A: -1.14E-06 B: -0.1641 C: _____Thermal Factor (K): -0.05450 (kPa/ °C)Calculate C by setting P=0 and R₁ = initial field zero reading into the polynomial equation(psi) Linear Gauge Factor (G): -0.02607 (psi/ digit)Polynomial Gauge Factors: A: -1.654E-07 B: -0.02381 C: _____Thermal Factor (K): -0.007905 (psi/ °C)Calculate C by setting P=0 and R₁ = initial field zero reading into the polynomial equation

Calculated Pressures:

Linear, P = G(R₁ - R₀) + K(T₁ - T₀) - (S₁ - S₀)*Polynomial, P = AR₁² + BR₁ + C + K(T₁ - T₀) - (S₁ - S₀)*

*Barometric pressures expressed in kPa or psi. Barometric compensation is not required with vented transducers.

Factory Zero Reading: 8784 Temperature: 21.5 °C Barometer: 998.5 mbar

The above instrument was found to be in tolerance in all operating ranges.
 The above named instrument has been calibrated by comparison with standards traceable to the NIST, in compliance with ANSI Z540-1.

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C5-372
10,62 cVibrating Wire Pressure Transducer Calibration ReportModel Number: 4500SX-1 MPaDate of Calibration: January 17, 2024

This calibration has been verified/validated as of 01/26/2024

Serial Number: 2322092Temperature: 18.50 °CCalibration Instruction: CI-Pressure Transducer (7 kPa~3.5 MPa) Barometric Pressure: 986.8 mbarCable Length: 35 metersTechnician: Dean O. Courtney

Applied Pressure (MPa)	Gauge Reading 1st Cycle	Gauge Reading 2nd Cycle	Average Gauge Reading	Calculated Pressure (Linear)	Error Linear (%FS)	Calculated Pressure (Polynomial)	Error Polynomial (%FS)
0.0	8718	8719	8719	0.002	0.24	0.000	-0.01
0.2	8011	8011	8011	0.200	-0.04	0.200	0.02
0.4	7300	7300	7300	0.398	-0.22	0.400	-0.01
0.6	6582	6583	6583	0.598	-0.21	0.600	0.00
0.8	5859	5860	5860	0.799	-0.05	0.800	0.01
1.0	5131	5132	5132	1.002	0.24	1.000	0.00

(MPa) Linear Gauge Factor (G): -0.0002788 (MPa/ digit)Polynomial Gauge factors: A: -1.455E-09 B: -0.0002587 C: _____Thermal Factor (K): -0.00009764 (MPa/ °C)Calculate C by setting P=0 and R₁ = initial field zero reading into the polynomial equation(psi) Linear Gauge Factor (G): -0.04044 (psi/ digit)Polynomial Gauge Factors: A: -2.111E-07 B: -0.03751 C: _____Thermal Factor (K): -0.01416 (psi/ °C)Calculate C by setting P=0 and R₁ = initial field zero reading into the polynomial equation

Calculated Pressures:

Linear, P = G(R₁ - R₀) + K(T₁ - T₀) - (S₁ - S₀)*Polynomial, P = AR₁² + BR₁ + C + K(T₁ - T₀) - (S₁ - S₀)*

*Barometric pressures expressed in MPa or psi. Barometric compensation is not required with vented transducers.

Factory Zero Reading: 8713 Temperature: 21.4 °C Barometer: 997.7 mbarThe above instrument was found to be in tolerance in all operating ranges.
The above named instrument has been calibrated by comparison with standards traceable to the NIST, in compliance with ANSI Z540-1.

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L5-37R

6,67 m

Vibrating Wire Pressure Transducer Calibration ReportModel Number: 4500SX-1 MPaDate of Calibration: January 17, 2024

This calibration has been verified/validated as of 01/26/2024

Serial Number: 2322093Temperature: 18.50 °CCalibration Instruction: CI-Pressure Transducer (7 kPa~3.5 MPa) Barometric Pressure: 986.8 mbarCable Length: 31 metersTechnician: Dean O. Courtney

Applied Pressure (MPa)	Gauge Reading 1st Cycle	Gauge Reading 2nd Cycle	Average Gauge Reading	Calculated Pressure (Linear)	Error Linear (%FS)	Calculated Pressure (Polynomial)	Error Polynomial (%FS)
0.0	8725	8725	8725	0.003	0.26	0.000	0.02
0.2	8035	8035	8035	0.199	-0.07	0.200	-0.02
0.4	7339	7339	7339	0.398	-0.22	0.400	-0.02
0.6	6636	6636	6636	0.598	-0.17	0.600	0.03
0.8	5930	5930	5930	0.800	-0.04	0.800	0.02
1.0	5219	5220	5220	1.002	0.23	1.000	-0.02

(MPa) Linear Gauge Factor (G): -0.0002852 (MPa/ digit)

Polynomial Gauge factors:

A: -1.475E-09B: -0.0002646

C: _____

Thermal Factor (K): -0.0001045 (MPa/ °C)Calculate C by setting P=0 and R₁ = initial field zero reading into the polynomial equation(psi) Linear Gauge Factor (G): -0.04136 (psi/ digit)

Polynomial Gauge Factors:

A: -2.139E-07B: -0.03838

C: _____

Thermal Factor (K): -0.01516 (psi/ °C)Calculate C by setting P=0 and R₁ = initial field zero reading into the polynomial equation

Calculated Pressures:

Linear, $P = G(R_1 - R_0) + K(T_1 - T_0) - (S_1 - S_0)^*$ Polynomial, $P = AR_1^2 + BR_1 + C + K(T_1 - T_0) - (S_1 - S_0)^*$

*Barometric pressures expressed in MPa or psi. Barometric compensation is not required with vented transducers.

Factory Zero Reading: 8725Temperature: 21.7 °CBarometer: 997.5 mbar

The above instrument was found to be in tolerance in all operating ranges.
 The above named instrument has been calibrated by comparison with standards traceable to the NIST, in compliance with ANSI Z540-1.

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GEOKon

LS-37D

3,69

Vibrating Wire Pressure Transducer Calibration ReportModel Number: 4500SX-1 MPaDate of Calibration: January 17, 2024

This calibration has been verified/validated as of 01/26/2024

Serial Number: 2322094Temperature: 18.50 °CCalibration Instruction: CI-Pressure Transducer (7 kPa~3.5 MPa) Barometric Pressure: 986.8 mbarCable Length: 28 metersTechnician: Dean O. Cowdry

Applied Pressure (MPa)	Gauge Reading 1st Cycle	Gauge Reading 2nd Cycle	Average Gauge Reading	Calculated Pressure (Linear)	Error Linear (%FS)	Calculated Pressure (Polynomial)	Error Polynomial (%FS)
0.0	8813	8813	8813	0.002	0.20	0.000	0.02
0.2	8135	8136	8136	0.199	-0.06	0.200	-0.03
0.4	7452	7453	7453	0.398	-0.16	0.400	-0.02
0.6	6764	6764	6764	0.599	-0.10	0.600	0.04
0.8	6075	6075	6075	0.800	-0.02	0.800	0.01
1.0	5382	5382	5382	1.002	0.17	1.000	-0.01

(MPa) Linear Gauge Factor (G): -0.0002914 (MPa/ digit)

Polynomial Gauge factors:

A: -1.12E-09B: -0.0002755

C: _____

Thermal Factor (K): -0.0001522 (MPa/ °C)Calculate C by setting P=0 and R₁ = initial field zero reading into the polynomial equation(psi) Linear Gauge Factor (G): -0.04226 (psi/ digit)

Polynomial Gauge Factors:

A: -1.624E-07B: -0.03995

C: _____

Thermal Factor (K): -0.02207 (psi/ °C)Calculate C by setting P=0 and R₁ = initial field zero reading into the polynomial equation

Calculated Pressures:

Linear, $P = G(R_1 - R_0) + K(T_1 - T_0) - (S_1 - S_0)^*$ Polynomial, $P = AR_1^2 + BR_1 + C + K(T_1 - T_0) - (S_1 - S_0)^*$

*Barometric pressures expressed in MPa or psi. Barometric compensation is not required with vented transducers.

Factory Zero Reading: 8807Temperature: 21.5 °CBarometer: 997.7 mbar

The above instrument was found to be in tolerance in all operating ranges.
 The above named instrument has been calibrated by comparison with standards traceable to the NIST, in compliance with ANSI Z540-1.

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L5 - 22 DR

Vibrating Wire Pressure Transducer Calibration ReportModel Number: 4500SH-5 MPaDate of Calibration: December 29, 2023

M1166m

This calibration has been verified/validated as of 01/26/2024

Serial Number: 2329102Temperature: 21.50 °CCalibration Instruction: CI-Pressure Transducer (4 MPa~50 MPa) Barometric Pressure: 982 mbarCable Length: 45 metersTechnician: JBC

Applied Pressure (MPa)	Gauge Reading 1st Cycle	Gauge Reading 2nd Cycle	Average Gauge Reading	Calculated Pressure (Linear)	Error Linear (%FS)	Calculated Pressure (Polynomial)	Error Polynomial (%FS)
0.0	9029	9029	9029	0.010	0.19	-0.002	-0.03
1.0	8308	8308	8308	1.001	0.02	1.003	0.06
2.0	7587	7588	7588	1.991	-0.17	2.000	0.00
3.0	6862	6862	6862	2.989	-0.22	2.998	-0.05
4.0	6127	6129	6128	3.998	-0.04	4.000	0.00
5.0	5390	5391	5391	5.012	0.24	5.001	0.01

(MPa) Linear Gauge Factor (G): -0.001375 (MPa/ digit)Polynomial Gauge factors: A: -6.332E-09 B: -0.001283 C: _____Thermal Factor (K): -0.00002041 (MPa/ °C)Calculate C by setting P=0 and R₁ = initial field zero reading into the polynomial equation(psi) Linear Gauge Factor (G): -0.1994 (psi/ digit)Polynomial Gauge Factors: A: -9.184E-07 B: -0.1862 C: _____Thermal Factor (K): -0.002961 (psi/ °C)Calculate C by setting P=0 and R₁ = initial field zero reading into the polynomial equationCalculated Pressures: Linear, P = G(R₁ - R₀) + K(T₁ - T₀) · (S₁ - S₀)*Polynomial, P = AR₁² + BR₁ + C + K(T₁ - T₀) · (S₁ - S₀)*

*Barometric pressures expressed in MPa or psi. Barometric compensation is not required with vented transducers.

Factory Zero Reading: 9030 Temperature: 21.6 °C Barometer: 998.3 mbarThe above instrument was found to be in tolerance in all operating ranges.
The above named instrument has been calibrated by comparison with standards traceable to the NIST, in compliance with ANSI Z540-1.

L5 - 22 DR

Vibrating Wire Pressure Transducer Calibration ReportModel Number: 4500SX-2 MPaDate of Calibration: January 09, 2024

M/19

This calibration has been verified/validated as of 01/29/2024

Serial Number: 2250755Temperature: 19.80 °CCalibration Instruction: CI-Pressure Transducer (7 kPa~3.5 MPa) Barometric Pressure: 1000.6 mbarCable Length: 42 metersTechnician: J. B. C. S.

Applied Pressure (MPa)	Gauge Reading 1st Cycle	Gauge Reading 2nd Cycle	Average Gauge Reading	Calculated Pressure (Linear)	Error Linear (%FS)	Calculated Pressure (Polynomial)	Error Polynomial (%FS)
0.0	8775	8776	8776	0.005	0.26	0.000	-0.01
0.4	8052	8052	8052	0.399	-0.06	0.400	0.01
0.8	7323	7323	7323	0.796	-0.22	0.800	0.01
1.2	6589	6589	6589	1.195	-0.24	1.200	-0.01
1.6	5848	5848	5848	1.598	-0.08	1.600	-0.01
2.0	5100	5100	5100	2.005	0.27	2.000	0.01

(MPa) Linear Gauge Factor (G): -0.0005442 (MPa/ digit)Polynomial Gauge factors: A: -3.087E-09 B: -0.0005014 C: _____Thermal Factor (K): 0.0006161 (MPa/ °C)Calculate C by setting P=0 and R₁ = initial field zero reading into the polynomial equation(psi) Linear Gauge Factor (G): -0.07893 (psi/ digit)Polynomial Gauge Factors: A: -4.477E-07 B: -0.07272 C: _____Thermal Factor (K): 0.08936 (psi/ °C)Calculate C by setting P=0 and R₁ = initial field zero reading into the polynomial equationCalculated Pressures: Linear, P = G(R₁ - R₀) + K(T₁ - T₀) - (S₁ - S₀)*Polynomial, P = AR₁² + BR₁ + C + K(T₁ - T₀) - (S₁ - S₀)*

*Barometric pressures expressed in MPa or psi. Barometric compensation is not required with vented transducers.

Factory Zero Reading: 8776 Temperature: 25.0 °C Barometer: 989.6 mbarThe above instrument was found to be in tolerance in all operating ranges.
The above named instrument has been calibrated by comparison with standards traceable to the NIST, in compliance with ANSI Z540-1.

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L5-22 DR

Vibrating Wire Pressure Transducer Calibration ReportModel Number: 4500SX-1 MPaDate of Calibration: January 17, 2024

This calibration has been verified/validated as of 01/26/2024

Serial Number: 2322091Temperature: 18.50 °C

P/635

Calibration Instruction: CI-Pressure Transducer (7 kPa~3.5 MPa) Barometric Pressure: 986.8 mbarCable Length: 38 metersTechnician: Dean O. Courtney

Applied Pressure (MPa)	Gauge Reading 1st Cycle	Gauge Reading 2nd Cycle	Average Gauge Reading	Calculated Pressure (Linear)	Error Linear (%FS)	Calculated Pressure (Polynomial)	Error Polynomial (%FS)
0.0	8756	8756	8756	0.002	0.23	0.000	-0.02
0.2	8068	8068	8068	0.200	0.00	0.200	0.04
0.4	7379	7379	7379	0.398	-0.21	0.400	-0.01
0.6	6683	6683	6683	0.598	-0.22	0.600	-0.01
0.8	5981	5982	5982	0.799	-0.06	0.800	-0.01
1.0	5274	5274	5274	1.003	0.26	1.000	0.01

(MPa) Linear Gauge Factor (G): -0.0002873 (MPa/ digit)

Polynomial Gauge factors:

A: -1.56E-09B: -0.0002654

C: _____

Thermal Factor (K): -0.0002434 (MPa/ °C)Calculate C by setting P=0 and R₁ = initial field zero reading into the polynomial equation(psi) Linear Gauge Factor (G): -0.04167 (psi/ digit)

Polynomial Gauge Factors:

A: -2.263E-07B: -0.03849

C: _____

Thermal Factor (K): -0.03530 (psi/ °C)Calculate C by setting P=0 and R₁ = initial field zero reading into the polynomial equation

Calculated Pressures:

Linear, $P = G(R_1 - R_0) + K(T_1 - T_0) - (S_1 - S_0)^*$ Polynomial, $P = AR_1^2 + BR_1 + C + K(T_1 - T_0) - (S_1 - S_0)^*$

*Barometric pressures expressed in MPa or psi. Barometric compensation is not required with vented transducers.

Factory Zero Reading: 8748Temperature: 21.3 °CBarometer: 997.7 mbarThe above instrument was found to be in tolerance in all operating ranges.
The above named instrument has been calibrated by comparison with standards traceable to the NIST, in compliance with ANSI Z540-1.

L5-23 UD

10,12 m

Vibrating Wire Pressure Transducer Calibration ReportModel Number: 4500SH-5 MPaDate of Calibration: December 29, 2023

This calibration has been verified/validated as of 01/26/2024

Serial Number: 2329103Temperature: 21.50 °CCalibration Instruction: CI-Pressure Transducer (4 MPa~50 MPa) Barometric Pressure: 982 mbarCable Length: 41 metersTechnician: J. B. S.

Applied Pressure (MPa)	Gauge Reading 1st Cycle	Gauge Reading 2nd Cycle	Average Gauge Reading	Calculated Pressure (Linear)	Error Linear (%FS)	Calculated Pressure (Polynomial)	Error Polynomial (%FS)
0.0	8516	8515	8516	0.013	0.25	-0.001	-0.02
1.0	7769	7769	7769	0.998	-0.03	1.001	0.02
2.0	7018	7019	7019	1.990	-0.21	2.001	0.01
3.0	6263	6262	6263	2.988	-0.24	2.999	-0.01
4.0	5499	5500	5500	3.996	-0.08	3.999	-0.02
5.0	4728	4729	4729	5.014	0.28	5.001	0.02

(MPa) Linear Gauge Factor (G): -0.001321 (MPa/ digit)Polynomial Gauge factors: A: -7.097E-09 B: -0.001227 C: _____Thermal Factor (K): 0.0003042 (MPa/ °C)Calculate C by setting P=0 and R₁ = initial field zero reading into the polynomial equation(psi) Linear Gauge Factor (G): -0.1916 (psi/ digit)Polynomial Gauge Factors: A: -1.029E-06 B: -0.1779 C: _____Thermal Factor (K): 0.04412 (psi/ °C)Calculate C by setting P=0 and R₁ = initial field zero reading into the polynomial equation

Calculated Pressures:

Linear, $P = G(R_1 - R_0) + K(T_1 - T_0) \cdot (S_1 - S_0)^*$ Polynomial, $P = AR_1^2 + BR_1 + C + K(T_1 - T_0) \cdot (S_1 - S_0)^*$

*Barometric pressures expressed in MPa or psi. Barometric compensation is not required with vented transducers.

Factory Zero Reading: 8516 Temperature: 21.4 °C Barometer: 998.3 mbar

The above instrument was found to be in tolerance in all operating ranges.
 The above named instrument has been calibrated by comparison with standards traceable to the NIST, in compliance with ANSI Z540-1.

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L5-230 E

7, RD

Vibrating Wire Pressure Transducer Calibration ReportModel Number: 4500SX-2 MPaDate of Calibration: January 09, 2024

This calibration has been verified/validated as of 01/29/2024

Serial Number: 2250757Temperature: 19.80 °CCalibration Instruction: CI-Pressure Transducer (7 kPa~3.5 MPa) Barometric Pressure: 1000.6 mbarCable Length: 38 metersTechnician: J. B. C. S.

Applied Pressure (MPa)	Gauge Reading 1st Cycle	Gauge Reading 2nd Cycle	Average Gauge Reading	Calculated Pressure (Linear)	Error Linear (%FS)	Calculated Pressure (Polynomial)	Error Polynomial (%FS)
0.0	8869	8869	8869	0.005	0.23	0.000	-0.01
0.4	8173	8174	8174	0.400	-0.02	0.400	0.02
0.8	7475	7475	7475	0.796	-0.18	0.800	0.00
1.2	6771	6771	6771	1.196	-0.18	1.200	0.00
1.6	6062	6062	6062	1.599	-0.04	1.600	0.00
2.0	5348	5348	5348	2.005	0.24	2.000	0.00

(MPa) Linear Gauge Factor (G): -0.0005681 (MPa/ digit)Polynomial Gauge factors: A: -2.773E-09 B: -0.0005287 C: _____Thermal Factor (K): 0.0006197 (MPa/ °C)Calculate C by setting P=0 and R₁ = initial field zero reading into the polynomial equation(psi) Linear Gauge Factor (G): -0.08239 (psi/ digit)Polynomial Gauge Factors: A: -4.022E-07 B: -0.07668 C: _____Thermal Factor (K): 0.08988 (psi/ °C)Calculate C by setting P=0 and R₁ = initial field zero reading into the polynomial equation

Calculated Pressures:

Linear, P = G(R₁ - R₀) + K(T₁ - T₀) - (S₁ - S₀)*Polynomial, P = AR₁² + BR₁ + C + K(T₁ - T₀) - (S₁ - S₀)*

*Barometric pressures expressed in MPa or psi. Barometric compensation is not required with vented transducers.

Factory Zero Reading: 8874 Temperature: 23.7 °C Barometer: 989.6 mbar

The above instrument was found to be in tolerance in all operating ranges.
 The above named instrument has been calibrated by comparison with standards traceable to the NIST, in compliance with ANSI Z540-1.

LS-23 UD

Vibrating Wire Pressure Transducer Calibration Report

3,68m

Model Number: 4500SX-700 kPaDate of Calibration: January 11, 2024

This calibration has been verified/validated as of 01/26/2024

Serial Number: 2329894Temperature: 20.60 °CCalibration Instruction: CI-Pressure Transducer (7 kPa~3.5 MPa) Barometric Pressure: 986.8 mbarCable Length: 35 metersTechnician: R. Judd

Applied Pressure (kPa)	Gauge Reading 1st Cycle	Gauge Reading 2nd Cycle	Average Gauge Reading	Calculated Pressure (Linear)	Error Linear (%FS)	Calculated Pressure (Polynomial)	Error Polynomial (%FS)
0.0	8913	8914	8914	1.993	0.28	-0.005	0.00
140.0	8120	8120	8120	139.5	-0.07	140.0	0.00
280.0	7319	7319	7319	278.4	-0.23	280.1	0.01
420.0	6512	6512	6512	418.2	-0.26	420.0	-0.01
560.1	5697	5697	5697	559.5	-0.08	560.0	0.00
700.0	4874	4875	4875	702.0	0.29	700.0	0.01

(kPa) Linear Gauge Factor (G): -0.1733 (kPa/ digit)Polynomial Gauge factors: A: -9.535E-07 B: -0.1602 C: _____Thermal Factor (K): 0.02259 (kPa/ °C)Calculate C by setting P=0 and R₁ = initial field zero reading into the polynomial equation(psi) Linear Gauge Factor (G): -0.02514 (psi/ digit)Polynomial Gauge Factors: A: -1.383E-07 B: -0.02323 C: _____Thermal Factor (K): 0.003276 (psi/ °C)Calculate C by setting P=0 and R₁ = initial field zero reading into the polynomial equation

Calculated Pressures:

Linear, P = G(R₁ - R₀) + K(T₁ - T₀) - (S₁ - S₀)*Polynomial, P = AR₁² + BR₁ + C + K(T₁ - T₀) - (S₁ - S₀)*

*Barometric pressures expressed in kPa or psi. Barometric compensation is not required with vented transducers.

Factory Zero Reading: 8909 Temperature: 21.4 °C Barometer: 998.5 mbarThe above instrument was found to be in tolerance in all operating ranges.
The above named instrument has been calibrated by comparison with standards traceable to the NIST, in compliance with ANSI Z540-1.

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L5 - 24 DR

Vibrating Wire Pressure Transducer Calibration ReportModel Number: 4500SH-5 MPaDate of Calibration: December 29, 2023

This calibration has been verified/validated as of 01/26/2024

Serial Number: 2329105Temperature: 21.50 °C

915m

Calibration Instruction: CI-Pressure Transducer (4 MPa~50 MPa) Barometric Pressure: 982 mbarCable Length: 39 metersTechnician: J. B. C. S.

Applied Pressure (MPa)	Gauge Reading 1st Cycle	Gauge Reading 2nd Cycle	Average Gauge Reading	Calculated Pressure (Linear)	Error Linear (%FS)	Calculated Pressure (Polynomial)	Error Polynomial (%FS)
0.0	8788	8788	8788	0.012	0.24	0.000	-0.01
1.0	8057	8056	8057	0.998	-0.04	1.001	0.02
2.0	7322	7322	7322	1.988	-0.24	1.999	-0.02
3.0	6581	6580	6581	2.988	-0.25	2.999	-0.02
4.0	5830	5831	5831	3.999	-0.03	4.002	0.04
5.0	5077	5081	5079	5.012	0.23	4.999	-0.02

(MPa) Linear Gauge Factor (G): -0.001348 (MPa/ digit)

Polynomial Gauge factors:

A: -7.086E-09B: -0.001250

C: _____

Thermal Factor (K): 0.0008409 (MPa/ °C)Calculate C by setting P=0 and R₁ = initial field zero reading into the polynomial equation(psi) Linear Gauge Factor (G): -0.1955 (psi/ digit)

Polynomial Gauge Factors:

A: -1.028E-06B: -0.1813

C: _____

Thermal Factor (K): 0.1220 (psi/ °C)Calculate C by setting P=0 and R₁ = initial field zero reading into the polynomial equation

Calculated Pressures:

Linear, P = G(R₁ - R₀) + K(T₁ - T₀) - (S₁ - S₀)*Polynomial, P = AR₁² + BR₁ + C + K(T₁ - T₀) - (S₁ - S₀)*

*Barometric pressures expressed in MPa or psi. Barometric compensation is not required with vented transducers.

Factory Zero Reading: 8790Temperature: 21.1 °CBarometer: 998.3 mbarThe above instrument was found to be in tolerance in all operating ranges.
The above named instrument has been calibrated by comparison with standards traceable to the NIST, in compliance with ANSI Z540-1.

L5-24 DK

Vibrating Wire Pressure Transducer Calibration ReportModel Number: 4500SX-2 MPaDate of Calibration: January 09, 2024

This calibration has been verified/validated as of 01/29/2024

Serial Number: 2250758Temperature: 19.80 °C

6,20

Calibration Instruction: CI-Pressure Transducer (7 kPa~3.5 MPa) Barometric Pressure: 1000.6 mbarCable Length: 37 metersTechnician: J. B. C.

Applied Pressure (MPa)	Gauge Reading 1st Cycle	Gauge Reading 2nd Cycle	Average Gauge Reading	Calculated Pressure (Linear)	Error Linear (%FS)	Calculated Pressure (Polynomial)	Error Polynomial (%FS)
0.0	8497	8497	8497	0.006	0.28	0.000	0.00
0.4	7786	7786	7786	0.399	-0.06	0.400	-0.01
0.8	7068	7068	7068	0.796	-0.21	0.800	0.01
1.2	6345	6345	6345	1.196	-0.21	1.200	0.01
1.6	5616	5617	5617	1.599	-0.07	1.600	-0.01
2.0	4881	4881	4881	2.006	0.28	2.000	0.00

(MPa) Linear Gauge Factor (G): -0.0005531 (MPa/ digit)Polynomial Gauge factors: A: -3.126E-09 B: -0.0005113 C: _____Thermal Factor (K): 0.0006599 (MPa/ °C)Calculate C by setting P=0 and R₁ = initial field zero reading into the polynomial equation(psi) Linear Gauge Factor (G): -0.08022 (psi/ digit)Polynomial Gauge Factors: A: -4.534E-07 B: -0.07415 C: _____Thermal Factor (K): 0.09571 (psi/ °C)Calculate C by setting P=0 and R₁ = initial field zero reading into the polynomial equation

Calculated Pressures:

Linear, P = G(R₁ - R₀) + K(T₁ - T₀) - (S₁ - S₀)*Polynomial, P = AR₁² + BR₁ + C + K(T₁ - T₀) - (S₁ - S₀)*

*Barometric pressures expressed in MPa or psi. Barometric compensation is not required with vented transducers.

Factory Zero Reading: 8499 Temperature: 24.0 °C Barometer: 989.6 mbarThe above instrument was found to be in tolerance in all operating ranges.
The above named instrument has been calibrated by comparison with standards traceable to the NIST, in compliance with ANSI Z540-1.

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L5-24 DR

2,79 m

Vibrating Wire Pressure Transducer Calibration ReportModel Number: 4500SX-700 kPaDate of Calibration: January 11, 2024

This calibration has been verified/validated as of 01/26/2024

Serial Number: 2329896Temperature: 20.60 °CCalibration Instruction: CI-Pressure Transducer (7 kPa~3.5 MPa) Barometric Pressure: 986.8 mbarCable Length: 35 metersTechnician: R. Judd

Applied Pressure (kPa)	Gauge Reading 1st Cycle	Gauge Reading 2nd Cycle	Average Gauge Reading	Calculated Pressure (Linear)	Error Linear (%FS)	Calculated Pressure (Polynomial)	Error Polynomial (%FS)
0.0	8950	8951	8951	2.219	0.32	0.031	0.00
140.0	8115	8115	8115	139.5	-0.07	140.0	-0.01
280.0	7271	7271	7271	278.2	-0.25	280.0	0.00
420.0	6419	6419	6419	418.2	-0.26	420.0	0.00
560.1	5559	5559	5559	559.6	-0.07	560.1	0.00
700.0	4691	4691	4691	702.2	0.32	700.0	0.00

(kPa) Linear Gauge Factor (G): -0.1643 (kPa/ digit)Polynomial Gauge factors: A: -9.158E-07 B: -0.1518 C: _____Thermal Factor (K): -0.03999 (kPa/ °C)Calculate C by setting P=0 and R₁ = initial field zero reading into the polynomial equation(psi) Linear Gauge Factor (G): -0.02383 (psi/ digit)Polynomial Gauge Factors: A: -1.328E-07 B: -0.02202 C: _____Thermal Factor (K): -0.005800 (psi/ °C)Calculate C by setting P=0 and R₁ = initial field zero reading into the polynomial equation

Calculated Pressures:

Linear, $P = G(R_1 - R_0) + K(T_1 - T_0) - (S_1 - S_0)^*$ Polynomial, $P = AR_1^2 + BR_1 + C + K(T_1 - T_0) - (S_1 - S_0)^*$

*Barometric pressures expressed in kPa or psi. Barometric compensation is not required with vented transducers.

Factory Zero Reading: 8947 Temperature: 21.5 °C Barometer: 998.5 mbar

The above instrument was found to be in tolerance in all operating ranges.
 The above named instrument has been calibrated by comparison with standards traceable to the NIST, in compliance with ANSI Z540-1.

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LS-262

Vibrating Wire Pressure Transducer Calibration ReportModel Number: 4500SX-1 MPaDate of Calibration: January 17, 2024

10,10

Serial Number: 2322089

This calibration has been verified/validated as of 01/26/2024

Temperature: 18.50 °CCalibration Instruction: CI-Pressure Transducer (7 kPa~3.5 MPa) Barometric Pressure: 986.8 mbarCable Length: 42 metersTechnician: Dean O. Courtney

Applied Pressure (MPa)	Gauge Reading 1st Cycle	Gauge Reading 2nd Cycle	Average Gauge Reading	Calculated Pressure (Linear)	Error Linear (%FS)	Calculated Pressure (Polynomial)	Error Polynomial (%FS)
0.0	8692	8692	8692	0.002	0.20	0.000	0.01
0.2	8005	8006	8006	0.200	-0.03	0.200	0.00
0.4	7316	7316	7316	0.398	-0.18	0.400	-0.03
0.6	6620	6620	6620	0.599	-0.14	0.600	0.01
0.8	5921	5921	5921	0.800	-0.02	0.800	0.02
1.0	5219	5220	5220	1.002	0.18	1.000	-0.01

(MPa) Linear Gauge Factor (G): -0.0002879 (MPa/ digit)

Polynomial Gauge factors:

A: -1.203E-09B: -0.0002712

C: _____

Thermal Factor (K): -0.0001477 (MPa/ °C)Calculate C by setting P=0 and R₁ = initial field zero reading into the polynomial equation(psi) Linear Gauge Factor (G): -0.04176 (psi/ digit)

Polynomial Gauge Factors:

A: -1.745E-07B: -0.03933

C: _____

Thermal Factor (K): -0.02142 (psi/ °C)Calculate C by setting P=0 and R₁ = initial field zero reading into the polynomial equation

Calculated Pressures:

Linear, $P = G(R_1 - R_0) + K(T_1 - T_0) - (S_1 - S_0)^*$ Polynomial, $P = AR_1^2 + BR_1 + C + K(T_1 - T_0) - (S_1 - S_0)^*$

*Barometric pressures expressed in MPa or psi. Barometric compensation is not required with vented transducers.

Factory Zero Reading: 8686Temperature: 21.7 °CBarometer: 998 mbarThe above instrument was found to be in tolerance in all operating ranges.
The above named instrument has been calibrated by comparison with standards traceable to the NIST, in compliance with ANSI Z540-1.

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Vibrating Wire Pressure Transducer Calibration Report

L5-26 D

7/19/24

Model Number: 4500SX-1 MPaDate of Calibration: January 17, 2024

This calibration has been verified/validated as of 01/26/2024

Serial Number: 2322090Temperature: 18.50 °CCalibration Instruction: CI-Pressure Transducer (7 kPa~3.5 MPa) Barometric Pressure: 986.8 mbarCable Length: 38 metersTechnician: Dean O. Courtney

Applied Pressure (MPa)	Gauge Reading 1st Cycle	Gauge Reading 2nd Cycle	Average Gauge Reading	Calculated Pressure (Linear)	Error Linear (%FS)	Calculated Pressure (Polynomial)	Error Polynomial (%FS)
0.0	8749	8749	8749	0.002	0.18	0.000	-0.01
0.2	8072	8072	8072	0.200	-0.01	0.200	0.02
0.4	7393	7393	7393	0.399	-0.14	0.400	-0.01
0.6	6710	6710	6710	0.599	-0.14	0.600	-0.01
0.8	6022	6022	6022	0.800	-0.02	0.800	-0.01
1.0	5331	5332	5332	1.002	0.18	1.000	0.00

(MPa) Linear Gauge Factor (G): -0.0002926 (MPa/ digit)

Polynomial Gauge factors:

A: -1.135E-09B: -0.0002767

C: _____

Thermal Factor (K): -0.00007456 (MPa/ °C)Calculate C by setting P=0 and R₁ = initial field zero reading into the polynomial equation(psi) Linear Gauge Factor (G): -0.04244 (psi/ digit)

Polynomial Gauge Factors:

A: -1.646E-07B: -0.04013

C: _____

Thermal Factor (K): -0.01081 (psi/ °C)Calculate C by setting P=0 and R₁ = initial field zero reading into the polynomial equation

Calculated Pressures:

Linear, $P = G(R_1 - R_0) + K(T_1 - T_0) - (S_1 - S_0)^*$ Polynomial, $P = AR_1^2 + BR_1 + C + K(T_1 - T_0) - (S_1 - S_0)^*$

*Barometric pressures expressed in MPa or psi. Barometric compensation is not required with vented transducers.

Factory Zero Reading: 8746Temperature: 21.3 °CBarometer: 997.7 mbarThe above instrument was found to be in tolerance in all operating ranges.
The above named instrument has been calibrated by comparison with standards traceable to the NIST, in compliance with ANSI Z540-1.

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L5-262

Vibrating Wire Pressure Transducer Calibration ReportModel Number: 4500SX-700 kPaDate of Calibration: January 11, 2024

374m

This calibration has been verified/validated as of 01/26/2024

Serial Number: 2329893Temperature: 20.60 °CCalibration Instruction: CI-Pressure Transducer (7 kPa~3.5 MPa) Barometric Pressure: 986.8 mbarCable Length: 35 metersTechnician: R. Fudd

Applied Pressure (kPa)	Gauge Reading 1st Cycle	Gauge Reading 2nd Cycle	Average Gauge Reading	Calculated Pressure (Linear)	Error Linear (%FS)	Calculated Pressure (Polynomial)	Error Polynomial (%FS)
0.0	9007	9008	9008	2.574	0.37	0.124	0.02
140.0	8184	8184	8184	139.3	-0.10	139.7	-0.04
280.0	7347	7347	7347	278.3	-0.24	280.2	0.03
420.0	6505	6505	6505	418.1	-0.27	420.0	0.00
560.1	5653	5653	5653	559.6	-0.07	560.1	0.00
700.0	4792	4793	4793	702.5	0.35	700.0	0.00

(kPa) Linear Gauge Factor (G): -0.1660 (kPa/ digit)

Polynomial Gauge factors:

A: -1.022E-06B: -0.1519

C: _____

Thermal Factor (K): 0.07537 (kPa/ °C)Calculate C by setting P=0 and R₁ = initial field zero reading into the polynomial equation(psi) Linear Gauge Factor (G): -0.02408 (psi/ digit)

Polynomial Gauge Factors:

A: -1.482E-07B: -0.02204

C: _____

Thermal Factor (K): 0.01093 (psi/ °C)Calculate C by setting P=0 and R₁ = initial field zero reading into the polynomial equation

Calculated Pressures:

Linear, $P = G(R_1 - R_0) + K(T_1 - T_0) - (S_1 - S_0)^*$ Polynomial, $P = AR_1^2 + BR_1 + C + K(T_1 - T_0) - (S_1 - S_0)^*$

*Barometric pressures expressed in kPa or psi. Barometric compensation is not required with vented transducers.

Factory Zero Reading: 9006Temperature: 21.6 °CBarometer: 998.5 mbar

The above instrument was found to be in tolerance in all operating ranges.
 The above named instrument has been calibrated by comparison with standards traceable to the NIST, in compliance with ANSI Z540-1.