



Sea-Bird GmbH  
 Postfach 1167  
 87401 Kempten  
 Germany

+49 831 9 60994 701  
 seabird.eu@seabird.com  
 www.seabird.com

SENSOR SERIAL NUMBER: 6244  
 CALIBRATION DATE: 14-Jun-21

SBE 19plus V2 PRESSURE CALIBRATION DATA  
 2900 psia S/N 11697697

COEFFICIENTS:

PA0 =	8.884243e-002	PTCA0 =	5.242333e+005
PA1 =	8.828747e-003	PTCA1 =	8.737479e-001
PA2 =	-1.332399e-010	PTCA2 =	-1.625156e-002
PTEMPA0 =	-6.152694e+001	PTCB0 =	2.523573e+001
PTEMPA1 =	5.410243e+001	PTCB1 =	7.880435e-004
PTEMPA2 =	-5.211645e-001	PTCB2 =	0.000000e+000

PRESSURE SPAN CALIBRATION

THERMAL CORRECTION

PRESSURE (PSIA)	INSTRUMENT OUTPUT (counts)	THERMISTOR OUTPUT (volts)	COMPUTED PRESSURE (PSIA)	RESIDUAL (%FSR)	TEMP (°C)	THERMISTOR OUTPUT (volts)	INSTRUMENT OUTPUT (counts)
13.67	525829.6	1.6	14.07	0.01	32.50	1.77	525858.42
590.90	591211.5	1.6	590.29	-0.02	29.00	1.70	525863.27
1167.45	656764.0	1.6	1166.87	-0.02	24.00	1.61	525865.38
1746.35	722998.1	1.6	1748.29	0.07	18.50	1.50	525861.26
2321.52	788367.9	1.6	2320.97	-0.02	15.00	1.43	525858.82
2898.29	854347.0	1.6	2897.83	-0.02	4.50	1.24	525845.82
2320.58	788395.3	1.6	2321.20	0.02	1.00	1.17	525857.15
1746.04	722723.6	1.6	1745.88	-0.01			
1167.32	656755.5	1.6	1166.79	-0.02	TEMPERATURE (°C)		SPAN
590.64	591199.1	1.6	590.18	-0.02	-2.20		25.23
13.66	525829.4	1.6	14.07	0.01	34.60		25.26

y = thermistor output (volts)

$$t = PTEMPA0 + PTEMPA1 * y + PTEMPA2 * y^2$$

$$x = \text{instrument output} - PTCA0 - PTCA1 * t - PTCA2 * t^2$$

$$n = x * PTCB0 / (PTCB0 + PTCB1 * t + PTCB2 * t^2)$$

$$\text{pressure (PSIA)} = PA0 + PA1 * n + PA2 * n^2$$

$$\text{Residual (\%FSR)} = (\text{computed pressure} - \text{true pressure}) * 100 / \text{Full Scale Range}$$

Date, Offset (%FSR)

● 14-Jun-21 -0.00

