



Sea-Bird Scientific
13431 NE 20th Street
Bellevue, WA 98005
USA

+1 425-643-9866
seabird@seabird.com
www.seabird.com

SENSOR SERIAL NUMBER: 0817
CALIBRATION DATE: 29-Sep-22

SBE 37 PRESSURE CALIBRATION DATA
1500 psia S/N 192113

COEFFICIENTS:

PA0 =	-2.489360e-001	PTCA0 =	-6.590295e+000
PA1 =	6.013767e-002	PTCA1 =	-2.540935e-001
PA2 =	1.933637e-008	PTCA2 =	3.320245e-003
		PTCB0 =	3.005400e+001
		PTCB1 =	-5.666667e-004
		PTCB2 =	0.000000e+000

PRESSURE SPAN CALIBRATION

THERMAL CORRECTION

PRESSURE (PSIA)	INSTRUMENT OUTPUT (counts)	TEMPERATURE (°C)	COMPUTED PRESSURE (PSIA)	RESIDUAL (%FSR)	TEMP (°C)	INSTRUMENT OUTPUT (counts)
14.58	237.1	23.5	14.66	0.01	32.50	240.90
315.37	5206.2	23.7	314.15	-0.08	29.00	241.01
615.29	10171.5	23.6	614.37	-0.06	24.00	241.49
915.35	15121.1	23.6	914.58	-0.05	18.50	242.16
1215.29	20055.7	23.6	1214.83	-0.03	15.00	242.32
1515.22	24974.6	23.6	1515.06	-0.01	4.50	244.87
1215.23	20072.4	23.6	1215.85	0.04	1.00	245.18
915.30	15148.6	23.6	916.25	0.06		
615.32	10203.9	23.6	616.33	0.07	TEMPERATURE (°C)	SPAN
315.28	5236.1	23.6	315.96	0.04	0.00	30.05
14.58	239.2	23.5	14.79	0.01	30.00	30.04

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

$$n = x * \text{PTCB0} / (\text{PTCB0} + \text{PTCB1} * t + \text{PTCB2} * t^2)$$

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

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

Date, Offset (%FSR)
● 29-Sep-22 -0.00

