



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

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

SENSOR SERIAL NUMBER: 3936
CALIBRATION DATE: 20-Nov-20

SBE 37 PRESSURE CALIBRATION DATA
10153 psia S/N 7325

COEFFICIENTS:

PA0 = 1.866321e+000
PA1 = 4.884364e-001
PA2 = -4.707448e-007

PTCA0 = -1.248945e+001
PTCA1 = 3.077885e-001
PTCA2 = -6.098897e-003
PTCB0 = 2.482850e+001
PTCB1 = 7.000000e-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)
14.71	18.3	22.1	15.03	0.00	32.50	19.13
2002.09	4104.1	22.1	2001.49	-0.01	29.00	19.39
3989.24	8224.4	22.2	3988.81	-0.00	24.00	19.48
5976.42	12379.1	22.2	5976.57	0.00	18.50	19.19
7963.70	16567.4	22.2	7963.97	0.00	15.00	18.80
9951.22	20789.3	22.2	9950.63	-0.01	4.50	16.86
7963.67	16568.2	22.2	7964.35	0.01	1.00	15.88
5976.74	12379.5	22.2	5976.76	0.00	TEMPERATURE (°C)	SPAN
3989.20	8225.6	22.2	3989.39	0.00		
2002.07	4104.8	22.2	2001.82	-0.00		
14.72	18.2	22.2	14.98	0.00		
					-5.00	24.82
					35.00	24.85

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

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

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

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

Date, Offset (%FSR)

● 20-Nov-20 -0.00

