



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

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

SENSOR SERIAL NUMBER: 3722
CALIBRATION DATE: 09-Oct-19

SBE 37 PRESSURE CALIBRATION DATA
10153 psia S/N 6174

COEFFICIENTS:

PA0 = 8.059686e-001
PA1 = 4.917947e-001
PA2 = -4.909784e-007

PTCA0 = -2.011257e+001
PTCA1 = -5.019182e-002
PTCA2 = 5.470624e-003
PTCB0 = 2.458963e+001
PTCB1 = 9.250000e-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)
14.69	10.2	22.5	14.89	0.00	32.50	13.23
2000.99	4066.9	22.4	2000.11	-0.01	29.00	12.29
3987.88	8161.3	22.4	3987.40	-0.00	24.00	11.02
5974.94	12290.9	22.4	5975.13	0.00	18.50	9.91
7962.18	16455.1	22.4	7962.59	0.00	15.00	9.68
9949.61	20653.0	22.5	9948.88	-0.01	4.50	9.02
7962.05	16455.2	22.5	7962.60	0.01	1.00	9.01
5974.86	12291.4	22.5	5975.34	0.00		
3987.79	8162.1	22.5	3987.76	-0.00	TEMPERATURE (°C)	SPAN
2000.80	4067.6	22.5	2000.43	-0.00	-5.00	24.59
14.69	11.1	22.6	15.33	0.01	35.00	24.62

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

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

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

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

Date, Offset (%FSR)

● 09-Oct-19 0.00

