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

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

SENSOR SERIAL NUMBER: 2333
CALIBRATION DATE: 14-Jun-18

SBE 37 PRESSURE CALIBRATION DATA
1450 psia S/N 1207

COEFFICIENTS:

PA0 =   -1.955354e-001
PA1 =   6.856899e-002
PA2 =   -3.477800e-009

PTCA0 = -1.824427e+002
PTCA1 =   7.363407e-002
PTCA2 = -8.652697e-003
PTCB0 =   2.499438e+001
PTCB1 = -1.250000e-004
PTCB2 =   0.000000e+000

PRESSURE SPAN CALIBRATION

PRESSURE (PSIA)	INSTRUMENT OUTPUT (counts)	TEMPERATURE (°C)	COMPUTED PRESSURE (PSIA)	RESIDUAL (%FSR)
14.65	31.2	22.9	14.65	0.00
301.90	4221.0	22.8	301.90	0.00
588.94	8407.8	22.8	588.83	-0.01
876.09	12600.6	22.8	876.05	-0.00
1163.17	16793.5	22.8	1163.15	-0.00
1450.24	20987.9	22.8	1450.23	-0.00
1163.32	16796.8	22.8	1163.38	0.00
876.19	12602.7	22.9	876.20	0.00
589.02	8411.3	22.9	589.07	0.00
301.89	4221.8	22.9	301.96	0.01
14.65	30.7	22.9	14.62	-0.00

THERMAL CORRECTION

TEMP (°C)	INSTRUMENT OUTPUT (counts)
32.50	39.01
29.00	40.79
24.00	42.91
18.50	44.36
15.00	44.83
4.50	45.91
1.00	46.10

TEMPERATURE (°C)	SPAN
-5.00	25.00
35.00	24.99

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

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

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

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

Date, Offset (%FSR)
● 14-Jun-18   0.00

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