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

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

SENSOR SERIAL NUMBER: 3769
CALIBRATION DATE: 26-Feb-18

SBE 37 PRESSURE CALIBRATION DATA
1450 psia S/N 5759

COEFFICIENTS:

PA0 =	1.357816e+000	PTCA0 =	-1.378549e+002
PA1 =	6.878042e-002	PTCA1 =	6.326177e-001
PA2 =	-3.967479e-009	PTCA2 =	1.088552e-002
		PTCB0 =	2.484900e+001
		PTCB1 =	2.000000e-004
		PTCB2 =	0.000000e+000

PRESSURE SPAN CALIBRATION

PRESSURE (PSIA)	INSTRUMENT OUTPUT (counts)	TEMPERATURE (°C)	COMPUTED PRESSURE (PSIA)	RESIDUAL (%FSR)
14.70	76.5	22.5	14.74	0.00
301.94	4253.2	22.6	301.88	-0.00
589.03	8431.1	22.5	588.98	-0.00
876.16	12612.0	22.6	876.13	-0.00
1163.23	16793.9	22.6	1163.22	-0.00
1450.28	20976.4	22.6	1450.21	-0.00
1163.26	16796.0	22.6	1163.36	0.01
876.20	12614.4	22.6	876.30	0.01
589.11	8436.0	22.6	589.31	0.01
301.95	4253.5	22.7	301.89	-0.00
14.70	76.8	22.8	14.74	0.00

THERMAL CORRECTION

TEMP (°C)	INSTRUMENT OUTPUT (counts)
32.50	98.02
29.00	93.23
24.00	87.34
18.50	81.51
15.00	77.65
4.50	68.99
1.00	66.50

TEMPERATURE (°C)	SPAN
-5.00	24.85
35.00	24.86

x = instrument output - PTCA0 - PTCA1 * t - PTCA2 * t^2

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

pressure (PSIA) = PA0 + PA1 * n + PA2 * n^2

Residual (%FSR) = (computed pressure - true pressure) * 100 / Full Scale Range