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

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

SENSOR SERIAL NUMBER: 3764
CALIBRATION DATE: 30-Apr-19

SBE 37 PRESSURE CALIBRATION DATA
1450 psia S/N 5753

COEFFICIENTS:

PA0 =	3.694822e-001	PTCA0 =	-2.202392e+002
PA1 =	6.932416e-002	PTCA1 =	3.386357e-001
PA2 =	-1.477569e-009	PTCA2 =	-4.693122e-003
		PTCB0 =	2.462988e+001
		PTCB1 =	1.750000e-004
		PTCB2 =	0.000000e+000

PRESSURE SPAN CALIBRATION

PRESSURE (PSIA)	INSTRUMENT OUTPUT (counts)	TEMPERATURE (°C)	COMPUTED PRESSURE (PSIA)	RESIDUAL (%FSR)
14.67	-8.5	23.2	14.68	0.00
301.28	4126.9	23.3	301.28	0.00
588.53	8271.5	23.3	588.48	-0.00
875.68	12416.1	23.3	875.62	-0.00
1162.84	16562.8	23.4	1162.86	0.00
1449.84	20706.3	23.4	1449.83	-0.00
1162.88	16563.4	23.4	1162.90	0.00
875.72	12417.7	23.4	875.73	0.00
588.54	8273.3	23.4	588.60	0.00
301.33	4127.6	23.5	301.33	0.00
14.67	-8.7	23.6	14.66	-0.00

THERMAL CORRECTION

TEMP (°C)	INSTRUMENT OUTPUT (counts)
32.50	2.41
29.00	2.63
24.00	1.92
18.50	1.22
15.00	0.44
4.50	-2.06
1.00	-3.11

TEMPERATURE (°C)	SPAN
-5.00	24.63
35.00	24.64

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