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

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

SENSOR SERIAL NUMBER: 2336
CALIBRATION DATE: 26-Apr-21

SBE 37 PRESSURE CALIBRATION DATA
1450 psia S/N 1453

COEFFICIENTS:

PA0 =	4.602769e-001	PTCA0 =	5.684888e+001
PA1 =	6.907816e-002	PTCA1 =	2.684368e-001
PA2 =	-5.969886e-009	PTCA2 =	1.175427e-003
		PTCB0 =	2.507525e+001
		PTCB1 =	6.500000e-004
		PTCB2 =	0.000000e+000

PRESSURE SPAN CALIBRATION

PRESSURE (PSIA)	INSTRUMENT OUTPUT (counts)	TEMPERATURE (°C)	COMPUTED PRESSURE (PSIA)	RESIDUAL (%FSR)
14.46	266.8	22.6	14.49	0.00
300.92	4416.7	22.6	300.88	-0.00
588.24	8583.7	22.6	588.24	0.00
875.52	12752.8	22.6	875.54	0.00
1162.90	16926.1	22.6	1162.92	0.00
1450.21	21100.5	22.6	1450.17	-0.00
1162.89	16926.0	22.6	1162.91	0.00
875.57	12753.5	22.6	875.59	0.00
588.23	8583.3	22.6	588.21	-0.00
300.88	4416.0	22.6	300.83	-0.00
14.46	266.6	22.6	14.48	0.00

THERMAL CORRECTION

TEMP (°C)	INSTRUMENT OUTPUT (counts)
32.50	282.76
29.00	281.80
24.00	280.21
18.50	278.33
15.00	277.09
4.50	274.02
1.00	273.34

TEMPERATURE (°C)	SPAN
-5.00	25.07
35.00	25.10

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