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

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

SENSOR SERIAL NUMBER: 4285
CALIBRATION DATE: 08-Jan-21

SBE 37 PRESSURE CALIBRATION DATA
1450 psia S/N 8344

COEFFICIENTS:

PA0 =	3.763110e-001	PTCA0 =	-1.314282e+002
PA1 =	6.881189e-002	PTCA1 =	1.824841e-001
PA2 =	-3.447400e-009	PTCA2 =	2.458381e-003
		PTCB0 =	2.491525e+001
		PTCB1 =	-1.500000e-004
		PTCB2 =	0.000000e+000

PRESSURE SPAN CALIBRATION

PRESSURE (PSIA)	INSTRUMENT OUTPUT (counts)	TEMPERATURE (°C)	COMPUTED PRESSURE (PSIA)	RESIDUAL (%FSR)
14.65	81.7	22.9	14.67	0.00
301.56	4249.9	23.0	301.46	-0.01
588.74	8427.5	23.1	588.78	0.00
875.99	12604.3	23.1	875.93	-0.00
1163.00	16782.4	23.1	1163.04	0.00
1450.07	20960.1	23.1	1450.01	-0.00
1163.00	16782.4	23.2	1163.04	0.00
875.90	12605.1	23.2	875.98	0.01
588.90	8427.9	23.2	588.81	-0.01
301.63	4253.2	23.2	301.68	0.00
14.66	81.9	23.3	14.67	0.00

THERMAL CORRECTION

TEMP (°C)	INSTRUMENT OUTPUT (counts)
32.50	94.43
29.00	93.10
24.00	91.56
18.50	90.00
15.00	89.18
4.50	86.78
1.00	85.92

TEMPERATURE (°C)	SPAN
-5.00	24.92
35.00	24.91

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