



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

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

SENSOR SERIAL NUMBER: 16240
CALIBRATION DATE: 27-Feb-25

SBE 37 V2 PRESSURE CALIBRATION DATA
2900 psia S/N 10726997

COEFFICIENTS:

PA0 = 1.402313e-001
PA1 = 9.129053e-003
PA2 = -1.618407e-010
PTEMPA0 = -5.866121e+001
PTEMPA1 = 5.398023e-002
PTEMPA2 = -6.083065e-007

PTCA0 = 5.238383e+005
PTCA1 = 1.321897e+000
PTCA2 = -2.863196e-003
PTCB0 = 3.062345e+005
PTCB1 = 1.177837e+002
PTCB2 = -2.302220e+000

PRESSURE SPAN CALIBRATION

THERMAL CORRECTION

PRESSURE (PSIA)	INSTRUMENT OUTPUT (counts)	THERMISTOR OUTPUT (counts)	COMPUTED PRESSURE (PSIA)	RESIDUAL (%FSR)	TEMP (°C)	THERMISTOR OUTPUT (counts)	INSTRUMENT OUTPUT (counts)
14.60	525470.0	1506.8	14.72	0.00	32.50	1722	525540.89
591.19	588977.4	1510.6	591.04	-0.01	29.00	1655	525540.32
1168.45	652743.0	1512.0	1168.39	-0.00	24.00	1559	525536.08
1745.71	716655.6	1513.0	1745.76	0.00	18.50	1453	525526.84
2322.88	780703.0	1513.6	2323.04	0.01	15.00	1386	525519.11
2900.18	844870.2	1514.4	2900.07	-0.00	4.50	1186	525508.78
2323.15	780705.2	1514.2	2323.06	-0.00	1.00	1119	525505.18
1745.60	716656.6	1514.0	1745.77	0.01	TEMPERATURE (°C) SPAN		
1168.48	652756.8	1513.8	1168.51	0.00			
591.32	588990.2	1513.4	591.14	-0.01			
14.60	525465.4	1522.2	14.67	0.00			
					5.50	306812.44	
					25.70	307740.91	
					34.05	307575.87	

y = thermistor output (counts)

t = PTEMPA0 + PTEMPA1 * y + PTEMPA2 * y²

x = instrument output - PTCA0 - PTCA1 * t - PTCA2 * t²

n = x * PTCB0 / (PTCB0 + PTCB1 * t + PTCB2 * t²)

pressure (PSIA) = PA0 + PA1 * n + PA2 * n²

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

