



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

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

SENSOR SERIAL NUMBER: 9017
CALIBRATION DATE: 30-Aug-24

SBE 37 V2 PRESSURE CALIBRATION DATA
870 psia S/N 3182129

COEFFICIENTS:

PA0 = -3.425658e-003
PA1 = 2.964043e-003
PA2 = 2.732371e-011
PTEMPA0 = -7.239488e+001
PTEMPA1 = 5.054330e-002
PTEMPA2 = -4.920869e-007

PTCA0 = 5.245218e+005
PTCA1 = 1.367394e+000
PTCA2 = -5.469200e-002
PTCB0 = 2.517350e+001
PTCB1 = 5.000000e-004
PTCB2 = 0.000000e+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)
14.56	529445.0	1916.0	14.57	0.00	32.50	2119	529634.00
179.81	585168.0	1931.0	179.77	-0.00	29.00	2047	529639.00
359.77	645821.0	1932.0	359.76	-0.00	24.00	1944	529649.00
539.77	706415.0	1932.0	539.78	0.00	18.50	1831	529654.00
719.75	766931.0	1933.0	719.77	0.00	15.00	1759	529654.00
869.76	817300.0	1932.0	869.73	-0.00	4.50	1545	529652.00
719.80	766939.0	1932.0	719.80	-0.00	1.00	1473	529648.00
539.83	706436.0	1932.0	539.84	0.00	TEMPERATURE (°C) SPAN		
359.84	645850.0	1931.0	359.85	0.00			
179.84	585184.0	1930.0	179.81	-0.00			
14.55	529443.0	1931.0	14.57	0.00			
					-5.00		25.17
					35.00		25.19

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

