



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: 24-Nov-20

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

COEFFICIENTS:

PA0 = 1.723790e-002
PA1 = 2.964266e-003
PA2 = 2.575790e-011
PTEMPA0 = -7.239684e+001
PTEMPA1 = 5.054528e-002
PTEMPA2 = -4.925680e-007

PTCA0 = 5.245350e+005
PTCA1 = 2.152630e+000
PTCA2 = -6.709454e-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)
14.50	529441.0	1952.0	14.52	0.00	32.50	2119	529760.00
179.76	585172.0	1961.0	179.73	-0.00	29.00	2047	529767.30
359.74	645838.0	1965.0	359.76	0.00	24.00	1944	529774.87
539.74	706430.0	1971.0	539.75	0.00	18.50	1831	529777.31
719.73	766952.0	1978.0	719.72	-0.00	15.00	1759	529778.78
869.69	817332.0	1979.0	869.68	-0.00	4.50	1545	529768.95
719.73	766963.0	1979.0	719.75	0.00	1.00	1473	529763.70
539.75	706440.0	1980.0	539.78	0.00	TEMPERATURE (°C) SPAN		
359.75	645838.0	1979.0	359.75	-0.00			
179.75	585164.0	1979.0	179.71	-0.01			
14.46	529429.0	1979.0	14.49	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

Date, Offset (%FSR)

● 24-Nov-20 0.00

