



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

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

SENSOR SERIAL NUMBER: 12120
CALIBRATION DATE: 07-Sep-21

SBE 37 V2 PRESSURE CALIBRATION DATA
508 psia S/N 4134752

COEFFICIENTS:

PA0 =	6.879205e-002	PTCA0 =	5.250039e+005
PA1 =	1.580654e-003	PTCA1 =	4.495627e+000
PA2 =	4.920363e-012	PTCA2 =	-1.081551e-001
PTEMPA0 =	-8.178790e+001	PTCB0 =	2.510263e+001
PTEMPA1 =	4.773981e-002	PTCB1 =	-2.750000e-004
PTEMPA2 =	-2.196872e-007	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)
14.51	534201.0	2296.0	14.54	0.01	32.50	2421	534629.00
104.77	591238.0	2297.0	104.75	-0.00	29.00	2346	534639.14
204.78	654458.0	2297.0	204.77	-0.00	24.00	2239	534642.84
304.77	717643.0	2298.0	304.77	0.00	18.50	2121	534643.41
404.76	780800.0	2298.0	404.77	0.00	15.00	2047	534642.09
504.76	843920.0	2299.0	504.75	-0.00	4.50	1823	534615.36
404.76	780803.0	2299.0	404.77	0.00	1.00	1748	534602.84
304.78	717653.0	2299.0	304.78	0.00	TEMPERATURE (°C) SPAN		
204.78	654471.0	2299.0	204.79	0.00			
104.79	591259.0	2299.0	104.78	-0.00			
14.51	534171.0	2300.0	14.50	-0.00			
					-5.00		25.10
					35.00		25.09

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)

● 07-Sep-21 0.00

