



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

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

SENSOR SERIAL NUMBER: 13247
CALIBRATION DATE: 28-Sep-22

SBE 37 V2 PRESSURE CALIBRATION DATA
508 psia S/N 4369700

COEFFICIENTS:

PA0 = -9.394486e-002
PA1 = 1.607986e-003
PA2 = 6.992072e-011
PTEMPA0 = 2.392816e+002
PTEMPA1 = -9.035207e-002
PTEMPA2 = -5.739119e-006

PTCA0 = 5.240147e+005
PTCA1 = -2.008317e-001
PTCA2 = -9.527249e-002
PTCB0 = 2.498288e+001
PTCB1 = -4.250000e-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	533037.0	2103.0	14.52	0.00	32.50	2027	533518.00
104.77	588931.0	2101.0	104.73	-0.01	29.00	2059	533539.92
204.76	650590.0	2099.0	204.74	-0.00	24.00	2102	533565.58
304.75	711922.0	2099.0	304.75	0.00	18.50	2150	533589.16
404.74	772918.0	2098.0	404.74	0.00	15.00	2180	533600.86
504.71	833572.0	2096.0	504.69	-0.01	4.50	2271	533622.59
404.74	772930.0	2097.0	404.76	0.01	1.00	2301	533625.16
304.76	711940.0	2099.0	304.78	0.00	TEMPERATURE (°C) SPAN		
204.77	650609.0	2100.0	204.77	0.00			
104.78	588951.0	2102.0	104.76	-0.00			
14.50	533032.0	2101.0	14.51	0.00			
					-5.00	24.98	
					35.00	24.97	

y = thermistor output (counts)

t = PTEMPA0 + PTEMPA1 * y + PTEMPA2 * y²

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

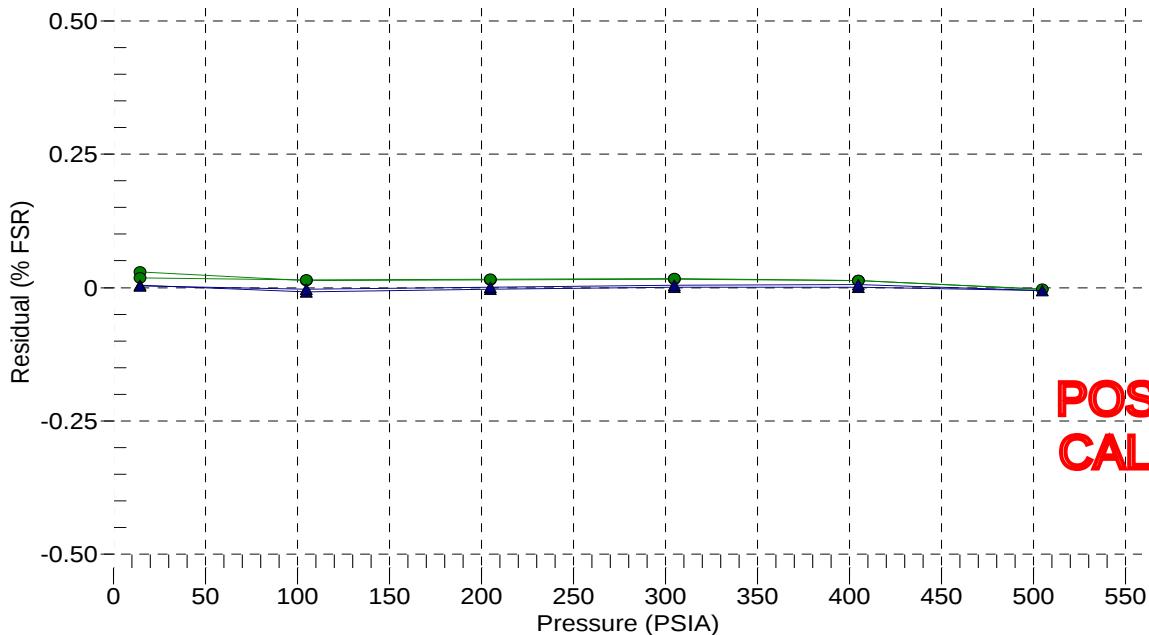
n = x * PTCB0 / (PTCB0 + PTCB1 * t + PTCB2 * t²)

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

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

Date, Offset (%FSR)

● 30-Nov-20 0.01
▲ 28-Sep-22 -0.00



**POST CRUISE
CALIBRATION**