

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 13247
CALIBRATION DATE: 08-Dec-16

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

COEFFICIENTS:

PA0 = -5.535142e-002
PA1 = 1.608277e-003
PA2 = 7.120559e-011
PTempa0 = 2.251489e+002
PTempa1 = -7.559759e-002
PTempa2 = -9.614471e-006

PTCA0 = 5.241026e+005
PTCA1 = 3.276439e-001
PTCA2 = -9.594772e-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 (volts)	COMPUTED PRESSURE (PSIA)	RESIDUAL (%FSR)	TEMP (°C)	THERMISTOR OUTPUT (volts)	INSTRUMENT OUTPUT (counts)
14.66	533225.0	2132.0	14.68	0.00	32.50	2026	533539.00
104.92	589105.0	2130.0	104.88	-0.01	29.00	2057	533558.21
204.92	650756.0	2130.0	204.91	-0.00	24.00	2100	533581.99
304.92	712077.0	2129.0	304.94	0.00	18.50	2147	533602.44
404.93	773056.0	2127.0	404.95	0.00	15.00	2177	533613.07
504.93	833680.0	2127.0	504.89	-0.01	4.50	2266	533629.53
404.93	773057.0	2129.0	404.95	0.00	1.00	2295	533629.35
304.93	712082.0	2131.0	304.94	0.00			
204.93	650767.0	2132.0	204.92	-0.00	TEMPERATURE (°C)		SPAN (mV)
104.93	589123.0	2134.0	104.90	-0.01	-5.00		24.98
14.66	533229.0	2135.0	14.68	0.00	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)

● 08-Dec-16 0.00

