

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 5048  
CALIBRATION DATE: 03-Mar-16

SBE 19plus V2 PRESSURE CALIBRATION DATA  
5076 psia S/N 2347775

## COEFFICIENTS:

PA0 =	-7.764053e+000	PTCA0 =	5.244051e+005
PA1 =	1.567801e-002	PTCA1 =	-2.243446e+001
PA2 =	-6.484669e-010	PTCA2 =	1.086286e-002
PTEMPA0 =	-6.374299e+001	PTCB0 =	2.474475e+001
PTEMPA1 =	5.179869e+001	PTCB1 =	-2.450000e-003
PTEMPA2 =	-2.265108e-001	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)
14.61	525336.8	1.7	14.73	0.00	32.50	1.87	525129.22
1026.51	589897.9	1.7	1026.42	-0.00	29.00	1.80	525206.22
2038.72	654847.6	1.7	2038.69	-0.00	24.00	1.71	525315.81
3050.99	720155.1	1.7	3051.00	0.00	18.50	1.60	525436.25
4063.09	785813.8	1.7	4063.21	0.00	15.00	1.53	525512.05
5075.36	851830.2	1.7	5075.24	-0.00	4.50	1.33	525747.39
4063.09	785809.9	1.7	4063.15	0.00	1.00	1.26	525824.56
3050.90	720174.8	1.7	3051.34	0.01			
2038.69	654847.3	1.7	2038.71	0.00	TEMPERATURE (°C)		SPAN (mV)
1026.53	589895.3	1.7	1026.42	-0.00	-5.00		24.76
14.60	525323.6	1.7	14.60	-0.00	35.00		24.66

y = thermistor output (counts)

$t = PTEMPA0 + PTEMPA1 * y + PTEMPA2 * y^2$

x = instrument output - PTCA0 - PTCA1 \* t - PTCA2 \* t<sup>2</sup>

$n = x * PTCB0 / (PTCB0 + PTCB1 * t + PTCB2 * t^2)$

pressure (PSIA) = PA0 + PA1 \* n + PA2 \* n<sup>2</sup>

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

Date, Offset (%FSR)

● 03-Mar-16 -0.00

