

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 7798

CALIBRATION DATE: 03-Apr-17

SBE 19plus V2 PRESSURE CALIBRATION DATA

870 psia S/N 10236283

## COEFFICIENTS:

PA0 = 1.627627e-001

PA1 = 2.659859e-003

PA2 = 1.875089e-011

PTEMPA0 = -8.004701e+001

PTEMPA1 = 6.057937e+001

PTEMPA2 = -1.941611e+000

PTCA0 = 5.246133e+005

PTCA1 = 4.023232e+000

PTCA2 = -5.739063e-002

PTCB0 = 2.491650e+001

PTCB1 = 1.500000e-003

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)
14.74	530161.0	1.8	14.74	-0.00	32.50	1.98	530229.95
180.00	592333.0	1.8	179.98	-0.00	29.00	1.92	530228.98
360.00	659993.0	1.8	359.96	-0.00	24.00	1.82	530224.67
540.01	727601.0	1.8	539.99	-0.00	18.50	1.72	530215.50
720.00	795143.0	1.8	720.00	-0.00	15.00	1.66	530206.80
870.00	851366.0	1.8	869.98	-0.00	4.50	1.46	530176.96
720.01	795167.0	1.8	720.07	0.01	1.00	1.40	530164.74
540.04	727627.0	1.8	540.06	0.00			
360.03	660021.0	1.8	360.04	0.00	TEMPERATURE (°C)		SPAN (mV)
180.02	592353.0	1.8	180.03	0.00	-5.00		24.91
14.74	530167.0	1.8	14.76	0.00	35.00		24.97

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-Apr-17 0.00

