

Sea-Bird Electronics, Inc.

13431 NE 20th Street, Bellevue, WA 98005-2010 USA

Phone: (+1) 425-643-9866 Fax (+1) 425-643-9954 Email: seabird@seabird.com

SENSOR SERIAL NUMBER: 0118
CALIBRATION DATE: 11-Jul-16

Glider Payload CTD PRESSURE CALIBRATION DATA
160 psia S/N 3840151

COEFFICIENTS:

PA0 = -1.455748e-002
PA1 = 4.979089e-004
PA2 = -8.146290e-012
PTempa0 = -7.133210e+001
PTempa1 = 5.174109e-002
PTempa2 = -6.501671e-007

PTCA0 = 5.243812e+005
PTCA1 = -8.566117e-001
PTCA2 = -8.419073e-003
PTCB0 = 2.496975e+001
PTCB1 = 7.500000e-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	553866.0	1864.0	14.66	0.00	32.50	2060	555176.90
29.95	584548.0	1864.0	29.90	-0.03	29.00	1989	555175.60
59.94	645071.0	1867.0	59.93	-0.01	24.00	1887	555174.80
94.95	715807.0	1866.0	94.95	0.00	18.50	1776	555191.20
124.95	776541.0	1866.0	124.95	0.00	15.00	1705	555200.80
159.94	847527.0	1865.0	159.93	-0.00	4.50	1494	555206.50
124.94	776544.0	1867.0	124.95	0.00	1.00	1424	555205.70
94.94	715820.0	1869.0	94.95	0.01			
59.94	645082.0	1870.0	59.94	-0.00	TEMPERATURE (°C)		SPAN (mV)
29.94	584613.0	1871.0	29.94	-0.00	-5.00		24.97
14.65	553862.0	1876.0	14.66	0.00	35.00		25.00

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)

● 11-Jul-16 -0.00

