

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0039

CALIBRATION DATE: 12-Sep-11

SBE GLIDER PAYLOAD CTD

PRESSURE CALIBRATION DATA

44 psia S/N 3220325

COEFFICIENTS:

PA0 = -1.626033e-002

PA1 = 1.494229e-004

PA2 = -4.094378e-012

PTEMPA0 = -8.124383e+001

PTEMPA1 = 5.105523e-002

PTEMPA2 = -4.824739e-007

PTCA0 = 5.254566e+005

PTCA1 = -3.791428e+000

PTCA2 = -4.384074e-002

PTCB0 = 2.506438e+001

PTCB1 = -1.250000e-004

PTCB2 = 0.000000e+000

PRESSURE SPAN CALIBRATION

PRESSURE PSIA	INST OUTPUT	THERMISTOR OUTPUT	COMPUTED PRESSURE	ERROR %FSR
14.65	623728.0	2077.0	14.65	-0.01
29.94	726804.0	2078.0	29.92	-0.03
34.93	760682.0	2079.0	34.93	-0.01
39.93	794627.0	2077.0	39.93	-0.00
44.93	828619.0	2077.0	44.93	-0.01
39.93	794715.0	2078.0	39.94	0.01
34.84	760173.0	2078.0	34.85	0.02
29.94	726987.0	2079.0	29.95	0.02
24.96	693267.0	2079.0	24.96	0.01
14.65	623804.0	2080.0	14.66	0.01

THERMAL CORRECTION

TEMP ITS90	THERMISTOR OUTPUT	INST OUTPUT
32.50	2277	629107.20
29.00	2205	629089.70
24.00	2103	629103.20
18.50	1991	629174.30
15.00	1920	629222.90
4.50	1707	629253.90
1.00	1636	629241.80

TEMP (ITS90)	SPAN (mV)
-5.00	25.07
35.00	25.06

$y = \text{thermistor output}; t = PTEMPA0 + PTEMPA1 * y + PTEMPA2 * y^2$

$x = \text{pressure output} - PTCA0 - PTCA1 * t - PTCA2 * t^2$

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

$\text{pressure (psia)} = PA0 + PA1 * n + PA2 * n^2$

Date, Avg Delta P %FS

12-Sep-11 -0.00

