

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0041
CALIBRATION DATE: 02-Nov-11

SBE GLIDER PAYLOAD CTD
PRESSURE CALIBRATION DATA
44 psia S/N 3220332

COEFFICIENTS:

PA0 = 1.069121e-002
PA1 = 1.532532e-004
PA2 = -1.169700e-011
PTEMPA0 = -7.607843e+001
PTEMPA1 = 4.898582e-002
PTEMPA2 = -3.131463e-007

PTCA0 = 5.276172e+005
PTCA1 = 7.284800e+000
PTCA2 = -1.775743e-001
PTCB0 = 2.504225e+001
PTCB1 = -5.500000e-004
PTCB2 = 0.000000e+000

PRESSURE SPAN CALIBRATION

PRESSURE PSIA	INST OUTPUT	THERMISTOR OUTPUT	COMPUTED PRESSURE	ERROR %FSR
14.54	623210.0	2087.0	14.55	0.02
29.83	725113.0	2080.0	29.83	-0.02
34.83	758918.0	2077.0	34.84	0.03
39.82	792798.0	2075.0	39.84	0.03
44.81	826614.0	2072.0	44.80	-0.03
39.82	792727.0	2071.0	39.83	0.01
34.83	758862.0	2070.0	34.83	-0.01
29.84	725225.0	2070.0	29.84	-0.00
24.85	691672.0	2070.0	24.84	-0.03
14.53	623068.0	2069.0	14.53	-0.01

THERMAL CORRECTION

TEMP ITS90	THERMISTOR OUTPUT	INST OUTPUT
32.50	2249	627961.30
29.00	2176	627875.00
24.00	2071	627972.10
18.50	1955	627983.40
15.00	1882	627960.40
4.50	1663	627982.10
1.00	1590	627882.00

TEMP (ITS90)	SPAN (mV)
-5.00	25.05
35.00	25.02

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

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

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

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

Date, Avg Delta P %FS

02-Nov-11 0.00

