

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: 0040

CALIBRATION DATE: 01-Sep-11

SBE GLIDER PAYLOAD CTD

PRESSURE CALIBRATION DATA

44 psia S/N 3220328

COEFFICIENTS:

PA0 = -2.096035e-002

PA1 = 1.520038e-004

PA2 = -5.190964e-012

PTEMPA0 = -7.402307e+001

PTEMPA1 = 4.908771e-002

PTEMPA2 = -1.864687e-007

PTCA0 = 5.256578e+005

PTCA1 = -4.291597e+000

PTCA2 = -9.126707e-002

PTCB0 = 2.499462e+001

PTCB1 = -6.750000e-004

PTCB2 = 0.000000e+000

PRESSURE SPAN CALIBRATION

PRESSURE PSIA	INST OUTPUT	THERMISTOR OUTPUT	COMPUTED PRESSURE	ERROR %FSR
14.70	622578.0	1972.0	14.69	-0.01
29.97	724035.0	1975.0	29.97	0.00
34.97	757417.0	1977.0	34.97	0.01
39.97	790872.0	1977.0	39.97	0.01
44.97	824304.0	1977.0	44.96	-0.01
39.97	790906.0	1978.0	39.98	0.02
34.97	757372.0	1979.0	34.96	-0.02
29.98	724027.0	1980.0	29.97	-0.02
24.99	690888.0	1980.0	24.99	0.01
14.70	622666.0	1982.0	14.71	0.02

THERMAL CORRECTION

TEMP ITS90	THERMISTOR OUTPUT	INST OUTPUT
32.50	2188	627645.80
29.00	2116	627641.30
24.00	2012	627668.40
18.50	1899	627752.40
15.00	1826	627810.70
4.50	1610	627855.60
1.00	1537	627845.70
TEMP (ITS90)		SPAN (mV)
-5.00		25.00
35.00		24.97

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

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

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

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

Date, Avg Delta P %FS

01-Sep-11 -0.00

