



Sea-Bird Scientific
13431 NE 20th Street
Bellevue, WA 98005
USA

+1 425-643-9866
seabird@seabird.com
www.seabird.com

SENSOR SERIAL NUMBER: 0118
CALIBRATION DATE: 04-Apr-18

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

COEFFICIENTS:

PA0 = -3.702965e-003
PA1 = 4.973809e-004
PA2 = -6.941531e-012
PTEMPA0 = -7.115395e+001
PTEMPA1 = 5.147641e-002
PTEMPA2 = -5.583730e-007

PTCA0 = 5.243403e+005
PTCA1 = 2.199604e+000
PTCA2 = -1.144511e-001
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)
14.63	553798.0	1848.0	14.64	0.00	32.50	2060	555630.10
29.90	584507.0	1848.0	29.88	-0.01	29.00	1989	555627.90
59.89	645044.0	1848.0	59.89	-0.00	24.00	1887	555657.10
94.90	715780.0	1847.0	94.90	0.00	18.50	1776	555678.20
124.90	776514.0	1846.0	124.90	0.00	15.00	1705	555680.20
159.90	847485.0	1845.0	159.90	-0.00	4.50	1494	555677.40
124.90	776518.0	1845.0	124.90	0.00	1.00	1424	555674.00
94.90	715787.0	1846.0	94.90	0.00			
59.90	645056.0	1848.0	59.90	-0.00	TEMPERATURE (°C)		SPAN
29.90	584519.0	1848.0	29.89	-0.01			
14.63	553818.0	1848.0	14.65	0.01			
					-5.00		24.97
					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)

● 04-Apr-18 -0.00

