



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

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

SENSOR SERIAL NUMBER: 0285
CALIBRATION DATE: 22-Mar-19

Glider Payload CTD PRESSURE CALIBRATION DATA
44 psia S/N 11106115

COEFFICIENTS:

PA0 = 4.837496e-002
PA1 = 1.367530e-004
PA2 = -4.213660e-012
PTEMPA0 = -5.362552e+001
PTEMPA1 = 5.556000e-002
PTEMPA2 = -5.111901e-007

PTCA0 = 5.253915e+005
PTCA1 = 1.052406e+001
PTCA2 = 1.829339e-001
PTCB0 = 2.526038e+001
PTCB1 = 8.750000e-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)
14.57	632340.0	1407.0	14.57	0.00	32.50	1573	637801.60
24.58	706274.0	1411.0	24.58	-0.01	29.00	1508	637733.20
29.59	743303.0	1410.0	29.58	-0.03	24.00	1415	637655.40
34.60	780743.0	1410.0	34.62	0.03	18.50	1314	637537.80
39.61	817981.0	1410.0	39.62	0.02	15.00	1250	637462.20
44.62	855229.0	1409.0	44.61	-0.02	4.50	1056	637303.40
39.62	818031.0	1410.0	39.63	0.02	1.00	992	637306.00
34.61	780847.0	1408.0	34.63	0.04	TEMPERATURE (°C)		SPAN
29.59	743340.0	1408.0	29.58	-0.03			
24.58	706374.0	1408.0	24.59	0.02			
14.57	632341.0	1407.0	14.57	0.00			
					-5.00		25.26
					35.00		25.29

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)

● 22-Mar-19 0.00

