



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

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

SENSOR SERIAL NUMBER: 0023
CALIBRATION DATE: 08-Jan-21

Prawler CTD PRESSURE CALIBRATION DATA
870 psia S/N 4369556

COEFFICIENTS:

PA0 =	1.682935e-001	PTCA0 =	5.239024e+005
PA1 =	2.726990e-003	PTCA1 =	7.436718e+000
PA2 =	6.739677e-011	PTCA2 =	-2.083258e-001
PTEMPA0 =	-8.315333e+002	PTCB0 =	2.491650e+001
PTEMPA1 =	6.519990e-001	PTCB1 =	-1.000000e-004
PTEMPA2 =	-1.232276e-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	529243.0	2903.0	14.57	-0.00	32.50	2774	529521.78
179.82	529243.0	2903.0	14.57	-18.99	29.00	2563	529554.60
359.83	655410.0	2902.0	359.82	-0.00	24.00	2876	529570.33
539.82	720892.0	2895.0	539.86	0.00	18.50	2941	529570.67
719.84	786151.0	2895.0	719.85	0.00	15.00	2984	529567.40
869.84	840367.0	2900.0	869.83	-0.00	4.50	3108	529535.70
719.87	786156.0	2898.0	719.87	-0.00	1.00	3149	529515.80
539.87	720897.0	2895.0	539.87	0.00	TEMPERATURE (°C) SPAN		
359.88	655427.0	2900.0	359.87	-0.00			
179.87	589740.0	2896.0	179.85	-0.00			
14.59	529258.0	2898.0	14.61	0.00			
					-5.00		24.92
					35.00		24.91

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)

● 08-Jan-21 0.00

