



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

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

SENSOR SERIAL NUMBER: 9087
CALIBRATION DATE: 01-Nov-19

Slocum Payload CTD PRESSURE CALIBRATION DATA
1450 psia S/N 3849156

COEFFICIENTS:

PA0 =	-1.480460e+000	PTCA0 =	5.240660e+005
PA1 =	4.495788e-003	PTCA1 =	-1.463748e+001
PA2 =	-1.579263e-011	PTCA2 =	-7.495072e-003
PTEMPA0 =	-7.170433e+001	PTCB0 =	2.544237e+001
PTEMPA1 =	5.092112e-002	PTCB1 =	8.750000e-004
PTEMPA2 =	-4.195525e-007	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)
14.74	527352.0	1872.0	14.75	0.00	32.50	2082	527213.00
314.88	594161.0	1873.0	314.81	-0.00	29.00	2011	527268.60
614.89	660993.0	1874.0	614.83	-0.00	24.00	1910	527342.20
914.86	727870.0	1877.0	914.91	0.00	18.50	1798	527423.60
1214.84	794754.0	1878.0	1214.87	0.00	15.00	1727	527475.40
1464.88	850513.0	1879.0	1464.83	-0.00	4.50	1515	527634.00
1214.89	794762.0	1878.0	1214.91	0.00	1.00	1445	527681.60
914.93	727876.0	1877.0	914.93	-0.00	TEMPERATURE (°C)		SPAN
614.92	661015.0	1876.0	614.93	0.00			
314.96	594199.0	1876.0	314.99	0.00			
14.74	527350.0	1876.0	14.76	0.00			
					-5.00		25.44
					35.00		25.47

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)

● 01-Nov-19 -0.00

