



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

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

SENSOR SERIAL NUMBER: 0164
CALIBRATION DATE: 20-Apr-22

Glider Payload CTD PRESSURE CALIBRATION DATA
44 psia S/N 4384302

COEFFICIENTS:

PA0 =	-6.147545e-003	PTCA0 =	5.261729e+005
PA1 =	1.403130e-004	PTCA1 =	2.436579e+001
PA2 =	1.524084e-012	PTCA2 =	-1.103852e+000
PTEMPA0 =	2.289305e+002	PTCB0 =	2.491388e+001
PTEMPA1 =	-8.847623e-002	PTCB1 =	-2.500000e-005
PTEMPA2 =	4.252049e-006	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)
14.34	628249.0	2659.0	14.34	0.00	32.50	2526	632713.70
24.42	699792.0	2657.0	24.41	-0.02	29.00	2582	632742.80
29.43	735454.0	2658.0	29.43	-0.00	24.00	2655	632798.90
34.45	771058.0	2658.0	34.45	0.01	18.50	2740	633062.40
39.46	806583.0	2659.0	39.47	0.01	15.00	2788	633238.30
44.47	841960.0	2655.0	44.46	-0.02	4.50	2965	633149.30
39.46	806565.0	2652.0	39.47	0.01	1.00	3006	632951.30
34.45	771065.0	2651.0	34.46	0.01	TEMPERATURE (°C) -5.00 35.00		SPAN 24.91 24.91
29.44	735480.0	2653.0	29.44	-0.00			
24.43	699876.0	2653.0	24.42	-0.01			
14.34	628257.0	2659.0	14.34	0.01			

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)

● 20-Apr-22 -0.00

