



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

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

SENSOR SERIAL NUMBER: 1805
CALIBRATION DATE: 03-Jan-25

SBE 39 PRESSURE CALIBRATION DATA
508 psia S/N 4713

COEFFICIENTS:

PA0 =	1.293142e-001	PTCA0 =	6.685415e+001
PA1 =	2.415260e-002	PTCA1 =	4.303636e-001
PA2 =	1.927867e-009	PTCA2 =	-8.413034e-003
PTHA0 =	-9.266056e+001	PTCB0 =	2.504188e+001
PTHA1 =	4.409327e-002	PTCB1 =	1.175000e-003
PTHA2 =	-1.895711e-007	PTCB2 =	0.000000e+000

PRESSURE SPAN CALIBRATION

THERMAL CORRECTION

PRESSURE (PSIA)	INSTRUMENT OUTPUT (counts)	THERMISTOR OUTPUT (counts)	COMPUTED PRESSURE (PSIA)	RESIDUAL (%FSR)	TEMP (°C)	THERMISTOR OUTPUT (counts)	INSTRUMENT OUTPUT (counts)
14.36	661.7	2617.0	14.35	-0.00	-1.50	2086.10	673.00
104.60	4400.4	2617.0	104.60	-0.00	1.00	2143.90	673.80
204.63	8541.1	2616.0	204.61	-0.00	4.50	2224.80	674.50
304.64	12677.9	2618.0	304.59	-0.01	8.00	2305.90	676.00
404.64	16813.3	2617.0	404.60	-0.01	11.50	2386.90	677.20
504.63	20946.6	2616.0	504.63	0.00	15.00	2467.70	678.20
404.61	16815.1	2616.0	404.65	0.01	18.50	2548.90	678.30
304.60	12680.0	2617.0	304.64	0.01	22.00	2630.10	678.90
204.60	8541.7	2617.0	204.62	0.00	25.50	2711.30	679.00
104.61	4401.6	2616.0	104.63	0.00	29.00	2792.90	678.60
14.36	661.6	2615.0	14.35	-0.00	32.50	2874.00	678.30

TEMPERATURE (°C)	SPAN
-5.00	25.04
35.00	25.08

y = thermistor output (counts)

t = PTHA0 + PTHA1 * y + PTHA2 * 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

