



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

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

SENSOR SERIAL NUMBER: 3769
CALIBRATION DATE: 18-May-21

SBE 39 PRESSURE CALIBRATION DATA
870 psia S/N 2471022

COEFFICIENTS:

PA0 =	1.470750e-001	PTCA0 =	1.254231e+001
PA1 =	4.219781e-002	PTCA1 =	3.099851e-001
PA2 =	1.811593e-009	PTCA2 =	-6.892853e-003
PTHA0 =	-7.578628e+001	PTCB0 =	2.484813e+001
PTHA1 =	5.058770e-002	PTCB1 =	-9.750000e-004
PTHA2 =	-5.480257e-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)
14.57	357.7	1998.7	14.58	0.00	-1.50	1492.60	361.40
185.27	4400.6	1995.8	185.37	0.01	1.00	1543.80	362.22
357.46	8461.3	1995.4	356.97	-0.06	4.50	1615.20	363.24
527.83	12505.1	1995.6	527.92	0.01	8.00	1687.00	364.04
698.95	16550.6	1995.2	699.00	0.01	11.50	1759.00	364.67
869.99	20590.4	1995.5	869.89	-0.01	15.00	1831.10	365.02
699.00	16552.4	1994.5	699.07	0.01	18.50	1903.00	365.27
527.91	12508.2	1994.2	528.05	0.02	22.00	1975.60	365.28
356.85	8460.9	1994.1	356.95	0.01	25.50	2047.10	365.37
185.84	4412.4	1993.9	185.87	0.00	29.00	2120.20	365.18
14.56	357.5	1994.2	14.57	0.00	32.50	2192.70	364.75

TEMPERATURE (°C)	SPAN
-5.00	24.85
35.00	24.81

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

Date, Offset (%FSR)

● 18-May-21 -0.00

