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

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

SENSOR SERIAL NUMBER: 16238
CALIBRATION DATE: 27-Feb-25

SBE 37 V2 PRESSURE CALIBRATION DATA
2900 psia S/N 10755345

COEFFICIENTS:

PA0 =	4.545053e-001	PTCA0 =	5.238546e+005
PA1 =	9.064968e-003	PTCA1 =	2.022953e+000
PA2 =	-1.698887e-010	PTCA2 =	1.875728e-002
PTEMPA0 =	-5.858293e+001	PTCB0 =	2.523532e+001
PTEMPA1 =	5.427317e-002	PTCB1 =	6.766917e-004
PTEMPA2 =	-6.225432e-007	PTCB2 =	0.000000e+000

PRESSURE SPAN CALIBRATION

PRESSURE (PSIA)	INSTRUMENT OUTPUT (counts)	THERMISTOR OUTPUT (counts)	COMPUTED PRESSURE (PSIA)	RESIDUAL (%FSR)
14.60	525482.4	1500.6	14.73	0.00
591.46	589195.0	1503.0	591.22	-0.01
1168.60	653152.6	1504.4	1168.55	-0.00
1745.79	717263.2	1504.6	1745.86	0.00
2322.95	781512.2	1505.0	2323.02	0.00
2900.04	845886.6	1506.2	2899.89	-0.01
2322.96	781517.6	1505.6	2323.06	0.00
1745.63	717251.6	1505.0	1745.75	0.00
1168.59	653159.4	1504.8	1168.61	0.00
591.39	589197.0	1504.6	591.24	-0.01
14.60	525479.0	1505.6	14.69	0.00

THERMAL CORRECTION

TEMP (°C)	THERMISTOR OUTPUT (counts)	INSTRUMENT OUTPUT (counts)
32.50	1712	525566.26
29.00	1645	525559.00
24.00	1549	525544.89
18.50	1444	525526.05
15.00	1378	525515.00
4.50	1178	525492.80
1.00	1112	525485.15

TEMPERATURE (°C)	SPAN
-4.90	25.23
35.00	25.26

y = thermistor output (counts)

$t = PTEMPA0 + PTEMPA1 * y + PTEMPA2 * y^2$

$x = \text{instrument output} - PTCA0 - PTCA1 * t - PTCA2 * t^2$

$n = x * PTCB0 / (PTCB0 + PTCB1 * t + PTCB2 * t^2)$

$\text{pressure (PSIA)} = PA0 + PA1 * n + PA2 * n^2$

Residual (%FSR) = (computed pressure - true pressure) * 100 / Full Scale Range

Date, Offset (%FSR)
● 09-Oct-17   0.02
▲ 27-Feb-25   -0.00

POST CRUISE
CALIBRATION