



Sea-Bird Scientific  
13431 NE 20<sup>th</sup> Street  
Bellevue, WA 98005  
USA

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

SENSOR SERIAL NUMBER: 0416  
CALIBRATION DATE: 13-Nov-23

SBE 37 PRESSURE CALIBRATION DATA  
1500 psia S/N 189025

#### COEFFICIENTS:

PA0 = 5.836312e+000  
PA1 = 6.002257e-002  
PA2 = 2.122544e-008

PTCA1 = -1.724818e+000  
PTCA2 = 6.976005e-002

#### PRESSURE SPAN CALIBRATION

#### THERMAL CORRECTION

| PRESSURE (PSIA) | INSTRUMENT OUTPUT (counts) | TEMPERATURE (°C) | COMPUTED PRESSURE (PSIA) | RESIDUAL (%FSR) | TEMP (°C) | INSTRUMENT OUTPUT (counts) |
|-----------------|----------------------------|------------------|--------------------------|-----------------|-----------|----------------------------|
| 14.52           | 144.6                      | 25.2             | 14.47                    | -0.00           | 32.50     | 160.20                     |
| 310.83          | 5063.5                     | 25.2             | 310.26                   | -0.04           | 29.00     | 150.20                     |
| 608.04          | 9986.3                     | 25.2             | 607.31                   | -0.05           | 24.00     | 140.14                     |
| 905.19          | 14894.3                    | 25.2             | 904.49                   | -0.05           | 18.50     | 131.90                     |
| 1202.39         | 19789.2                    | 25.2             | 1201.89                  | -0.03           | 15.00     | 132.32                     |
| 1499.55         | 24670.8                    | 25.2             | 1499.51                  | -0.00           | 4.50      | 139.35                     |
| 1202.40         | 19806.1                    | 25.2             | 1202.92                  | 0.03            | 1.00      | 137.21                     |
| 905.20          | 14919.0                    | 25.2             | 905.98                   | 0.05            |           |                            |
| 608.03          | 10010.6                    | 25.2             | 608.77                   | 0.05            |           |                            |
| 310.88          | 5081.0                     | 25.2             | 311.30                   | 0.03            |           |                            |
| 14.53           | 148.1                      | 25.2             | 14.67                    | 0.01            |           |                            |

t = temperature (°C)

n = instrument output - (PTCA1 \* t + PTCA2 \* t<sup>2</sup>)

pressure (PSIA) = PA0 + PA1 \* n + PA2 \* n<sup>2</sup>

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

