



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: 0819  
CALIBRATION DATE: 07-Sep-21

SBE 37 PRESSURE CALIBRATION DATA  
1500 psia S/N 192103

COEFFICIENTS:

PA0 = 5.363164e+000  
PA1 = 6.018882e-002  
PA2 = 1.735262e-008

PTCA1 = 7.007133e-001  
PTCA2 = 3.902182e-002

PRESSURE SPAN CALIBRATION

THERMAL CORRECTION

| PRESSURE<br>(PSIA) | INSTRUMENT<br>OUTPUT (counts) | TEMPERATURE<br>(°C) | COMPUTED<br>PRESSURE (PSIA) | RESIDUAL<br>(%FSR) | TEMP<br>(°C) | INSTRUMENT<br>OUTPUT (counts) |
|--------------------|-------------------------------|---------------------|-----------------------------|--------------------|--------------|-------------------------------|
| 14.48              | 206.6                         | 29.9                | 14.43                       | -0.00              | 32.50        | 229.80                        |
| 311.80             | 5122.0                        | 29.8                | 310.76                      | -0.07              | 29.00        | 219.64                        |
| 609.00             | 10040.1                       | 29.8                | 608.06                      | -0.06              | 24.00        | 205.46                        |
| 906.10             | 14945.7                       | 29.7                | 905.44                      | -0.04              | 18.50        | 192.38                        |
| 1203.21            | 19840.9                       | 29.7                | 1203.02                     | -0.01              | 15.00        | 183.82                        |
| 1500.33            | 24714.1                       | 29.7                | 1500.10                     | -0.02              | 4.50         | 172.82                        |
| 1203.15            | 19850.8                       | 29.7                | 1203.64                     | 0.03               | 1.00         | 164.94                        |
| 906.07             | 14969.6                       | 29.6                | 906.93                      | 0.06               |              |                               |
| 608.95             | 10067.9                       | 29.5                | 609.78                      | 0.06               |              |                               |
| 311.78             | 5148.0                        | 29.5                | 312.38                      | 0.04               |              |                               |
| 14.48              | 211.2                         | 29.4                | 14.81                       | 0.02               |              |                               |

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

