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SENSOR SERIAL NUMBER: 3722
CALIBRATION DATE: 07-Sep-21

SBE 37 PRESSURE CALIBRATION DATA
10153 psia S/N 6174

COEFFICIENTS:

| | | | |
|---|---|---|---|
| PA0 = | 1.236935e+000 | PTCA0 = | -1.918295e+001 |
| PA1 = | 4.920405e-001 | PTCA1 = | -5.299897e-002 |
| PA2 = | -4.904273e-007 | PTCA2 = | 5.760509e-003 |
| | | PTCB0 = | 2.458963e+001 |
| | | PTCB1 = | 9.250000e-004 |
| | | PTCB2 = | 0.000000e+000 |

PRESSURE SPAN CALIBRATION

| PRESSURE (PSIA) | INSTRUMENT OUTPUT (counts) | TEMPERATURE (°C) | COMPUTED PRESSURE (PSIA) | RESIDUAL (%FSR) |
|---|---|---|---|---|
| 14.54 | 11.2 | 26.0 | 14.93 | 0.00 |
| 2001.70 | 4067.9 | 26.2 | 2000.84 | -0.01 |
| 3988.92 | 8161.4 | 26.2 | 3988.46 | -0.00 |
| 5976.19 | 12289.9 | 26.3 | 5976.42 | 0.00 |
| 7963.46 | 16452.4 | 26.3 | 7963.88 | 0.00 |
| 9951.14 | 20648.7 | 26.3 | 9950.32 | -0.01 |
| 7963.38 | 16452.7 | 26.3 | 7964.03 | 0.01 |
| 5976.16 | 12290.6 | 26.4 | 5976.72 | 0.01 |
| 3988.88 | 8162.2 | 26.4 | 3988.79 | -0.00 |
| 2001.66 | 4068.4 | 26.4 | 2001.04 | -0.01 |
| 14.53 | 11.7 | 26.6 | 15.11 | 0.01 |

THERMAL CORRECTION

| TEMP (°C) | INSTRUMENT OUTPUT (counts) |
|---|---|
| 32.50 | 14.15 |
| 29.00 | 13.16 |
| 24.00 | 11.90 |
| 18.50 | 10.80 |
| 15.00 | 10.28 |
| 4.50 | 9.73 |
| 1.00 | 9.76 |

| TEMPERATURE (°C) | SPAN |
|---|---|
| -5.00 | 24.59 |
| 35.00 | 24.62 |

x = instrument output - PTCA0 - PTCA1 * t - PTCA2 * $t^2$

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

pressure (PSIA) = PA0 + PA1 * n + PA2 * $n^2$

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