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SENSOR SERIAL NUMBER: 2332
CALIBRATION DATE: 08-Apr-19

SBE 37 PRESSURE CALIBRATION DATA
1450 psia S/N 0799

COEFFICIENTS:

| | | | |
|---|---|---|---|
| PA0 = | 4.773307e-001 | PTCA0 = | -1.933679e+002 |
| PA1 = | 6.879863e-002 | PTCA1 = | 4.512556e-001 |
| PA2 = | -4.215213e-009 | PTCA2 = | -6.141093e-003 |
| | | PTCB0 = | 2.486613e+001 |
| | | PTCB1 = | -1.750000e-004 |
| | | PTCB2 = | 0.000000e+000 |

PRESSURE SPAN CALIBRATION

| PRESSURE (PSIA) | INSTRUMENT OUTPUT (counts) | TEMPERATURE (°C) | COMPUTED PRESSURE (PSIA) | RESIDUAL (%FSR) |
|---|---|---|---|---|
| 14.59 | 18.7 | 21.9 | 14.59 | -0.00 |
| 300.97 | 4182.0 | 22.0 | 300.98 | 0.00 |
| 588.24 | 8359.0 | 22.0 | 588.17 | -0.00 |
| 875.50 | 12539.5 | 22.0 | 875.46 | -0.00 |
| 1162.79 | 16722.6 | 22.0 | 1162.77 | -0.00 |
| 1449.92 | 20905.6 | 22.0 | 1449.93 | 0.00 |
| 1162.81 | 16722.9 | 21.9 | 1162.79 | -0.00 |
| 875.49 | 12542.1 | 21.9 | 875.63 | 0.01 |
| 588.33 | 8359.6 | 21.9 | 588.22 | -0.01 |
| 301.53 | 4192.2 | 22.0 | 301.69 | 0.01 |
| 14.60 | 18.0 | 22.1 | 14.54 | -0.00 |

THERMAL CORRECTION

| TEMP (°C) | INSTRUMENT OUTPUT (counts) |
|---|---|
| 32.50 | 32.24 |
| 29.00 | 32.28 |
| 24.00 | 31.87 |
| 18.50 | 30.52 |
| 15.00 | 29.35 |
| 4.50 | 26.12 |
| 1.00 | 24.80 |

| TEMPERATURE (°C) | SPAN |
|---|---|
| -5.00 | 24.87 |
| 35.00 | 24.86 |

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