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SENSOR SERIAL NUMBER: 21146
CALIBRATION DATE: 27-Feb-25

SBE 37 V2 PRESSURE CALIBRATION DATA
2900 psia S/N 5059699

COEFFICIENTS:

| | | | |
|-----------|----------------|---------|----------------|
| PA0 = | 2.413429e-001 | PTCA0 = | 5.232563e+005 |
| PA1 = | 9.131470e-003 | PTCA1 = | -6.975356e+000 |
| PA2 = | 3.100281e-011 | PTCA2 = | 3.615242e-001 |
| PTEMPA0 = | -9.437263e+001 | PTCB0 = | 1.024660e+002 |
| PTEMPA1 = | 3.958490e-002 | PTCB1 = | -5.666133e-003 |
| PTEMPA2 = | 1.205459e-006 | PTCB2 = | 0.000000e+000 |

PRESSURE SPAN CALIBRATION

THERMAL CORRECTION

| PRESSURE (PSIA) | INSTRUMENT OUTPUT (counts) | THERMISTOR OUTPUT (counts) | COMPUTED PRESSURE (PSIA) | RESIDUAL (%FSR) | TEMP (°C) | THERMISTOR OUTPUT (counts) | INSTRUMENT OUTPUT (counts) |
|--------------------|-------------------------------|-------------------------------|-----------------------------|--------------------|------------------|-------------------------------|-------------------------------|
| 14.60 | 524857.6 | 2699.8 | 14.74 | 0.00 | 32.50 | 2941 | 525058.42 |
| 591.19 | 587877.8 | 2702.8 | 591.01 | -0.01 | 29.00 | 2867 | 525005.38 |
| 1168.45 | 650991.4 | 2704.0 | 1168.39 | -0.00 | 24.00 | 2759 | 524944.50 |
| 1745.71 | 714084.6 | 2705.4 | 1745.83 | 0.00 | 18.50 | 2639 | 524898.57 |
| 2322.88 | 777122.2 | 2706.0 | 2323.02 | 0.00 | 15.00 | 2563 | 524880.01 |
| 2900.18 | 840109.4 | 2706.2 | 2899.99 | -0.01 | 4.50 | 2332 | 524878.56 |
| 2323.15 | 777142.4 | 2706.2 | 2323.20 | 0.00 | 1.00 | 2255 | 524897.56 |
| 1745.60 | 714074.6 | 2706.8 | 1745.74 | 0.00 | TEMPERATURE (°C) | | SPAN |
| 1168.48 | 650996.6 | 2707.4 | 1168.43 | -0.00 | | | |
| 591.32 | 587886.2 | 2707.4 | 591.08 | -0.01 | | | |
| 14.60 | 524862.6 | 2717.8 | 14.72 | 0.00 | -5.50 | 34.49 | 102.50 |
| | | | | | | | 102.27 |

y = thermistor output (counts)

t = PTEMPA0 + PTEMPA1 * y + PTEMPA2 * y²

x = instrument output - PTCA0 - PTCA1 * t - PTCA2 * t²

n = x * PTCB0 / (PTCB0 + PTCB1 * t + PTCB2 * t²)

pressure (PSIA) = PA0 + PA1 * n + PA2 * n²

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

