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SENSOR SERIAL NUMBER: 3774 CALIBRATION DATE: 03-Jan-25

SBE 39 PRESSURE CALIBRATION DATA 870 psia S/N 2476898

COEFFICIENTS:

PA0 =	5.375091e-002	PTCA0 =	-4.695011e+000
PA1 =	4.102439e-002	PTCA1 =	1.682155e-001
PA2 =	3.947582e-009	PTCA2 =	-5.013292e-003
PTHA0 =	-7.927168e+001	PTCB0 =	2.548963e+001
PTHA1 =	4.909261e-002	PTCB1 =	-6.750000e-004
PTHA2 =	-4.159269e-007	PTCB2 =	0.0000000e+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)
14.36	345.7	2085.0	14.38	0.00	-1.50	1606.10	359.30
179.63	4368.5	2089.0	179.59	-0.00	1.00	1658.40	359.80
359.64	8748.3	2090.0	359.59	-0.01	4.50	1731.80	360.03
539.65	13125.1	2090.0	539.63	-0.00	8.00	1805.20	360.52
719.66	17497.8	2090.0	719.65	-0.00	11.50	1878.90	360.83
869.69	21138.4	2089.0	869.64	-0.00	15.00	1952.50	360.92
719.65	17499.5	2090.0	719.72	0.01	18.50	2026.50	360.94
539.65	13126.8	2089.0	539.70	0.01	22.00	2100.30	360.87
359.65	8749.9	2089.0	359.66	0.00	25.50	2174.20	360.60
179.64	4369.7	2089.0	179.63	-0.00	29.00	2248.30	360.21
14.36	345.4	2089.0	14.37	0.00	32.50	2322.40	359.65

TEMPERATURE (°C) SPAN
-5.00 25.49
35.00 25.47

y = thermistor output (counts)

 $t = PTHA0 + PTHA1 * y + PTHA2 * y^2$

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

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

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

