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SENSOR SERIAL NUMBER: 16247
CALIBRATION DATE: 03-Mar-25

SBE 37 V2 PRESSURE CALIBRATION DATA
2900 psia S/N 10746414

COEFFICIENTS:

PA0 =	4.731347e-001	PTCA0 =	5.241161e+005
PA1 =	9.094856e-003	PTCA1 =	1.225013e+000
PA2 =	-1.681453e-010	PTCA2 =	5.113837e-002
PTEMPA0 =	-6.161739e+001	PTCB0 =	2.511536e+001
PTEMPA1 =	5.433521e-002	PTCB1 =	8.728180e-004
PTEMPA2 =	-6.955670e-007	PTCB2 =	0.000000e+000

PRESSURE SPAN CALIBRATION

PRESSURE (PSIA)	INSTRUMENT OUTPUT (counts)	THERMISTOR OUTPUT (counts)	COMPUTED PRESSURE (PSIA)	RESIDUAL (%FSR)
14.55	525732.4	1581.2	14.67	0.00
591.25	589227.8	1583.4	590.99	-0.01
1168.36	652985.2	1584.6	1168.32	-0.00
1745.68	716908.0	1585.4	1745.77	0.00
2322.86	780950.6	1585.6	2322.93	0.00
2900.03	845122.0	1586.6	2899.87	-0.01
2322.69	780935.4	1586.0	2322.79	0.00
1745.79	716920.6	1585.6	1745.88	0.00
1168.44	653001.6	1584.8	1168.46	0.00
591.27	589239.6	1584.8	591.09	-0.01
14.55	525733.8	1584.4	14.68	0.00

THERMAL CORRECTION

TEMP (°C)	THERMISTOR OUTPUT (counts)	INSTRUMENT OUTPUT (counts)
32.50	1772	525834.47
29.00	1705	525823.80
24.00	1609	525805.25
18.50	1503	525782.93
15.00	1437	525769.37
4.50	1237	525751.46
1.00	1170	525744.04

TEMPERATURE (°C)	SPAN
-5.00	25.11
35.10	25.15

y = thermistor output (counts)

$t = PTEMPA0 + PTEMPA1 * y + PTEMPA2 * y^2$

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

Date, Offset (%FSR)
● 29-Sep-17   0.00
▲ 03-Mar-25   -0.00

POST CRUISE
CALIBRATION