SENSOR SERIAL NUMBER: 1079
CALIBRATION DATE: 06-Sep-22

SBE 25plus PRESSURE CALIBRATION DATA
508 psia S/N 4231485

COEFFICIENTS:

PA0   =   8.636938e-002   PTCA0 = 8.404829e+006
PA1   =   9.663030e-005   PTCA1 = 7.351867e+001
PA2   =   2.157625e-014   PTCA2 = -1.749741e+000
PTEMPA0 = -6.875377e+001   PTCB0 = 2.506025e+001
PTEMPA1 = 5.093349e+001   PTCB1 = -9.500000e-004
PTEMPA2 = -2.716600e-001   PTCB2 = 0.000000e+000

PRESSURE SPAN CALIBRATION

PRESSURE (PSIA)	INSTRUMENT OUTPUT (counts)	THERMISTOR OUTPUT (volts)	COMPUTED PRESSURE (PSIA)	RESIDUAL (%FSR)
14.49	8554609.0	1.8	14.50	0.00
104.75	9487261.0	1.8	104.73	-0.00
204.74	10520464.0	1.8	204.73	-0.00
304.75	11553118.0	1.8	304.72	-0.00
404.72	12585353.0	1.8	404.72	0.00
504.71	13616766.0	1.8	504.69	-0.00
404.73	12585560.0	1.8	404.75	0.00
304.74	11553449.0	1.8	304.76	0.00
204.75	10520720.0	1.8	204.76	0.00
104.76	9487485.0	1.8	104.75	-0.00
14.49	8554564.0	1.8	14.50	0.00

THERMAL CORRECTION

TEMP (°C)	THERMISTOR OUTPUT (volts)	INSTRUMENT OUTPUT (counts)
32.50	2.01	8559472.96
29.00	1.94	8559578.13
24.00	1.84	8559673.68
18.50	1.73	8559678.35
15.00	1.66	8559654.46
4.50	1.45	8559206.47
1.00	1.38	8559002.15

TEMPERATURE (°C)	SPAN
-5.00	25.07
35.00	25.03

y = thermistor output (counts)

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

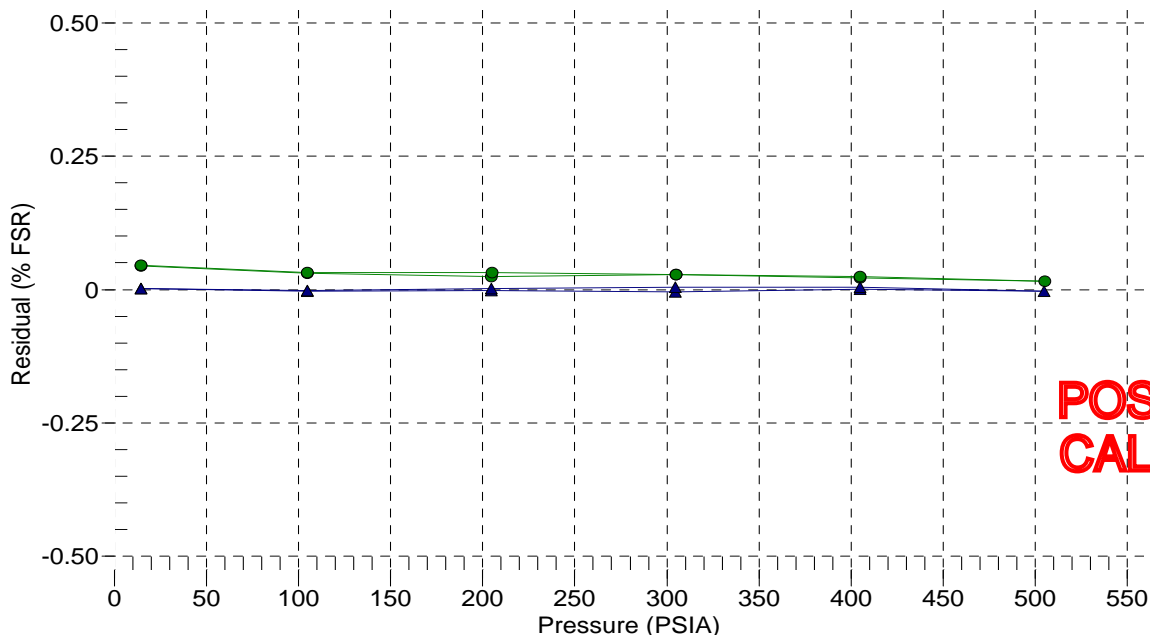x = instrument output - $PTCA0 - PTCA1 * t - PTCA2 * t^2$

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

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

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

Date, Offset (%FSR)
● 26-Aug-14   0.03
▲ 06-Sep-22   0.00

POST CRUISE
CALIBRATION