

Sea-Bird Scientific 13431 NE 20th Street Bellevue, WA 98005 **USA**

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SENSOR SERIAL NUMBER: 21147 CALIBRATION DATE: 22-Aug-19

SBE 37 V2 PRESSURE CALIBRATION DATA 2900 psia S/N 5059700

COEFFICIENTS:

PAO =		3.662260e-001	PTCA0	=	5.252788e+005
PA1 =		9.196733e-003	PTCA1	=	-6.611921e+000
PA2 =		3.853759e-011	PTCA2	=	3.764163e-001
PTEMPA0	=	-9.612412e+001	PTCB0	=	1.021578e+002
PTEMPA1	=	3.987512e-002	PTCB1	=	3.275655e-004
PTEMPA2	-	1 1404946-006	PTCB2	=	0.000000e+000

PRESSURE SPAN CALIBRATION

THERMAL CORRECTION

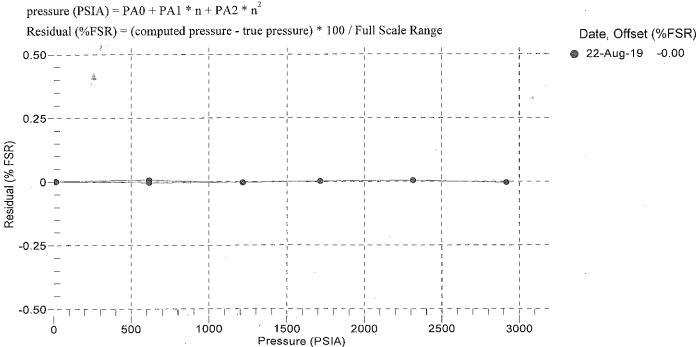
PRESSURE (PSIA)	INSTRUMENT OUTPUT (counts)	THERMISTOR OUTPUT (counts)	COMPUTED PRESSURE (PSIA)	RESIDUAL (%FSR)	TEMP (°C)	THERMISTOR OUTPUT (counts)	INSTRUMENT OUTPUT (counts)
14.66	526880.0	2753.0	14.73	0.00	32.50	2973	527088.84
614.87	592119.0	2708.0	615.02	0.01	29.00	2898	527032.53
1214.88	657306.0	2763.0	1214.76	-0.00	24.00	2790	526965.58
1714.81	711615.0	2764.0	1714.85	0.00	18.50	2671	526913.61
2314.75	776739.0	2765.0	2314.83	0.00	15.00	2594	526891.90
2914.66	841799.0	2765.0	2914.55	-0.00	4.50	2363	526884.03
2314.75	776744.0	2765.0	2314.87	0.00	1.00	2287	526901.42
1714.83	711614.0	2765.0	1714.83	0.00			
1214.87	657310.0	2765.0	1214.79	-0.00	TEMPE	RATURE (°C)	SPAN
614.89	592116.0	2766.0	614.75	-0.00		-5.50	102.16
14.65	526874.0	2765.0	14.62	-0.00		34.49	102.17

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y = thermistor output (counts)
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 $t = PTEMPA0 + PTEMPA1 * y + PTEMPA2 * y^2$

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

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





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SENSOR SERIAL NUMBER: 21147 CALIBRATION DATE: 25-Aug-19 SBE 37 V2 CONDUCTIVITY CALIBRATION DATA PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

COEFFICIENTS:

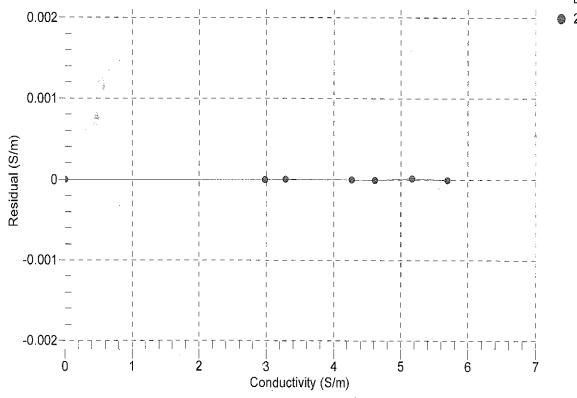
BATH TEMP (° C)	BATH SAL (PSU)	BATH COND (S/m)	INSTRUMENT OUTPUT (Hz)	INSTRUMENT COND (S/m)	RESIDUAL (S/m)
22.0000	0.0000	0.00000	2683.03	0.00000	0.00000
1.0000	34.8377	2.97762	5326.30	2.97762	-0.00000
4.5000	34.8163	3.28472	5526.93	3.28473	0.00000
15.0000	34.7744	4.26702	6123.93	4.26701	-0.00000
18.5000	34.7664	4.61246	6320.21	4.61246	-0.00001
23.9999	34.7577	5.17086	6624.90	5.17087	0.00001
29.0000	34.7534	5.69317	6897.38	5.69317	-0.00001
32.5000	34.7514	6.06595	7085.03	6.06550	-0.00045

f = Instrument Output(Hz) * sqrt(1.0 + WBOTC * t) / 1000.0

 $t = temperature (°C); p = pressure (decibars); <math>\delta = CTcor; \epsilon = CPcor;$

Conductivity (S/m) = $(g + h * f^2 + i * f^3 + j * f^4) / (1 + \delta * t + \epsilon * p)$

Residual (Siemens/meter) = instrument conductivity - bath conductivity



Date, Slope Correction

25-Aug-19 1.0000000