

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1807
CALIBRATION DATE: 22-Nov-15

SBE 37 CONDUCTIVITY CALIBRATION DATA
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

COEFFICIENTS:

g = -9.992573e-001
h = 1.377759e-001
i = -4.377189e-004
j = 5.097429e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = 1.2056e-006

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	2701.02	0.00000	0.00000
1.0000	34.6838	2.96572	5381.76	2.96572	0.00000
4.5000	34.6647	3.27183	5585.15	3.27183	-0.00000
15.0000	34.6227	4.25037	6189.81	4.25036	-0.00001
18.5000	34.6138	4.59440	6388.49	4.59439	-0.00000
24.0000	34.6042	5.15055	6696.86	5.15055	0.00000
29.0000	34.5992	5.67075	6972.57	5.67077	0.00002
32.5000	34.5965	6.04198	7162.59	6.04197	-0.00001

$f = \text{Instrument Output(Hz)} * \sqrt{1.0 + \text{WBOTC} * t} / 1000.0$

t = temperature (°C); p = pressure (decibars); $\delta = \text{CTcor}$; $\epsilon = \text{CPcor}$;

Conductivity (S/m) = $(g + h * f^2 + i * f^3 + j * f^4) / 10 (1 + \delta * t + \epsilon * p)$

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

