# Sea-Bird Electronics, Inc.

13431 NE 20th Street, Bellevue, WA 98005-2010 USA

Phone: (+1) 425-643-9866 Fax (+1) 425-643-9954 Email: seabird@seabird.com


SENSOR SERIAL NUMBER: 3765
CALIBRATION DATE: 05-Oct-16

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

COEFFICIENTS:

```
g = -1.030317e+000
h =  1.416895e-001
i = -1.902556e-004
j =  3.516707e-005

CPcor = -9.5700e-008
CTcor =  3.2500e-006
WBOTC = -8.7050e-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 | 2699.31 | 0.00000 | 0.00000 |
| 1.0000 | 34.8210 | 2.97633 | 5318.03 | 2.97634 | 0.00001 |
| 4.4999 | 34.8013 | 3.28344 | 5517.44 | 3.28343 | -0.00001 |
| 15.0000 | 34.7590 | 4.26533 | 6110.78 | 4.26532 | -0.00001 |
| 18.5000 | 34.7503 | 4.61056 | 6305.89 | 4.61056 | 0.00000 |
| 24.0000 | 34.7409 | 5.16865 | 6608.82 | 5.16865 | 0.00001 |
| 29.0001 | 34.7364 | 5.69071 | 6879.82 | 5.69071 | -0.00000 |
| 32.5000 | 34.7342 | 6.06329 | 7066.69 | 6.06329 | 0.00000 |

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

t = temperature (°C); p = pressure (decibars); $\delta$ = CTcor; $\varepsilon$ = CPcor;

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

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