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

+1 425-643-9866
seabird@seabird.com
www.seabird.com

SENSOR SERIAL NUMBER: 9324
CALIBRATION DATE: 27-Feb-21

Slocum Payload CTD CONDUCTIVITY CALIBRATION DATA
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

COEFFICIENTS:

```
g =  -1.001298e+00
h =   1.358298e-01
i =  -8.499083e-05
j =   2.495408e-05

CPcor = -9.5700e-008
CTcor =  3.2500e-006
WBOTC =   5.2164e-07
```

| 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 | 2715.54 | 0.00000 | 0.00000 |
| 1.0000 | 34.6533 | 2.96336 | 5397.30 | 2.96335 | -0.00001 |
| 4.4999 | 34.6342 | 3.26922 | 5600.88 | 3.26925 | 0.00002 |
| 15.0000 | 34.5944 | 4.24726 | 6206.33 | 4.24720 | -0.00006 |
| 18.5000 | 34.5863 | 4.59114 | 6405.42 | 4.59117 | 0.00003 |
| 24.0000 | 34.5779 | 5.14707 | 6714.45 | 5.14709 | 0.00003 |
| 29.0001 | 34.5740 | 5.66709 | 6990.84 | 5.66708 | -0.00002 |
| 32.4999 | 34.5716 | 6.03812 | 7181.27 | 6.03791 | -0.00021 |

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

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

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

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