



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

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

SENSOR SERIAL NUMBER: 0028
CALIBRATION DATE: 22-May-22

Prawler CTD TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -2.742111e-004
a1 = 3.452844e-004
a2 = -7.420765e-006
a3 = 2.796335e-007

| BATH TEMP (° C) | INSTRUMENT OUTPUT (counts) | INST TEMP (° C) | RESIDUAL (° C) |
|--------------------|-------------------------------|--------------------|-------------------|
| 1.0000 | 566448.1 | 1.0000 | 0.0000 |
| 4.5000 | 484779.3 | 4.4999 | -0.0001 |
| 15.0000 | 309855.2 | 15.0001 | 0.0001 |
| 18.5000 | 268575.6 | 18.5000 | 0.0000 |
| 24.0000 | 215819.8 | 23.9999 | -0.0001 |
| 28.9999 | 177993.3 | 28.9999 | 0.0000 |
| 32.5000 | 156054.4 | 32.5000 | 0.0000 |

n = Instrument Output (counts)

Temperature ITS-90 (°C) = $1 / \{a_0 + a_1[\ln(n)] + a_2[\ln^2(n)] + a_3[\ln^3(n)]\} - 273.15$

Residual (°C) = instrument temperature - bath temperature

