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## SENSOR SERIAL NUMBER: 3229 CALIBRATION DATE: 16-Feb-23

## SBE 21 TEMPERATURE CALIBRATION DATA ITS-90 TEMPERATURE SCALE

## **COEFFICIENTS:**

g = 4.23492004e-003 h = 6.28534174e-004 i = 1.81576512e-005 j = 8.80484672e-007

f0 = 1000.0

| BATH TEMP<br>(° C) | INSTRUMENT<br>OUTPUT (Hz) | INST TEMP<br>(° C) | RESIDUAL<br>(° C) |
|--------------------|---------------------------|--------------------|-------------------|
| 1.0000             | 2611.012                  | 1.0000             | -0.00003          |
| 4.5000             | 2820.830                  | 4.5001             | 0.00007           |
| 15.0000            | 3523.117                  | 14.9998            | -0.00016          |
| 18.4999            | 3782.661                  | 18.5000            | 0.00013           |
| 24.0000            | 4217.433                  | 24.0000            | 0.00004           |
| 29.0000            | 4642.158                  | 28.9999            | -0.00007          |
| 32.5000            | 4956.696                  | 32.5000            | 0.00003           |

f = Instrument Output (Hz)

Temperature ITS-90 (°C) =  $1/\{g + h[ln(f0/f)] + i[ln^2(f0/f)] + j[ln^3(f0/f)]\} - 273.15$ 

Residual ( ${}^{\circ}C$ ) = instrument temperature - bath temperature

