



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

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

SENSOR SERIAL NUMBER: 3392
 CALIBRATION DATE: 04-Feb-24

SBE 21 TEMPERATURE CALIBRATION DATA
 ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

g = 4.22226446e-003
 h = 6.10774131e-004
 i = 1.72595062e-005
 j = 9.84203575e-007
 f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	2626.673	0.9999	-0.00005
4.5000	2843.766	4.5001	0.00010
15.0000	3573.257	15.0000	-0.00004
18.5000	3843.801	18.4999	-0.00012
24.0000	4298.064	24.0002	0.00018
29.0000	4742.889	28.9999	-0.00005
32.5000	5072.942	32.5000	-0.00001

f = Instrument Output (Hz)

$$\text{Temperature ITS-90 (°C)} = 1 / \{g + h[\ln(f_0 / f)] + i[\ln^2(f_0 / f)] + j[\ln^3(f_0 / f)]\} - 273.15$$

Residual (°C) = instrument temperature - bath temperature

