



Sea-Bird GmbH
 Postfach 1167
 87401 Kempten
 Germany

+49 831 9 60994 701
 seabird.eu@seabird.com
 www.seabird.com

SENSOR SERIAL NUMBER: 5147
 CALIBRATION DATE: 26-May-21

SBE 3 TEMPERATURE CALIBRATION DATA
 ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

g = 4.40614397e-003
 h = 6.44452990e-004
 i = 2.32629616e-005
 j = 2.22336057e-006
 f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	3217.749	-1.5000	0.00001
1.0000	3403.441	1.0000	-0.00000
4.5000	3676.257	4.5000	-0.00000
8.0000	3964.439	8.0000	-0.00003
11.5000	4268.407	11.5000	0.00001
15.0000	4588.552	15.0000	0.00003
18.5000	4925.258	18.5000	0.00001
22.0000	5278.899	22.0000	-0.00005
25.5000	5649.852	25.5000	0.00004
29.0000	6038.429	29.0000	-0.00004
32.5000	6444.992	32.5000	0.00002

f = Instrument Output (Hz)

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

$$\text{Residual (°C)} = \text{instrument temperature} - \text{bath temperature}$$

