



Sea-Bird GmbH
 Postfach 1167
 87401 Kempten
 Germany

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

SENSOR SERIAL NUMBER: 5146
 CALIBRATION DATE: 23-Dec-22

SBE 3 TEMPERATURE CALIBRATION DATA
 ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

g = 4.36716788e-003
 h = 6.40631437e-004
 i = 2.23942801e-005
 j = 2.12501752e-006
 f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	3032.057	-1.5000	0.00003
1.0000	3207.144	0.9999	-0.00006
4.5000	3464.399	4.5000	0.00004
8.0000	3736.142	8.0000	-0.00001
11.5000	4022.776	11.5000	-0.00000
15.0000	4324.677	15.0000	0.00002
18.5000	4642.205	18.5000	-0.00002
22.0000	4975.726	22.0000	0.00001
25.5000	5325.570	25.5000	0.00000
29.0000	5692.068	29.0000	-0.00002
32.5000	6075.540	32.5000	0.00001

f = Instrument Output (Hz)

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

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

