



Sea-Bird GmbH
 Postfach 1167
 87401 Kempten
 Germany

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

SENSOR SERIAL NUMBER: 5144
 CALIBRATION DATE: 26-May-21

SBE 3 TEMPERATURE CALIBRATION DATA
 ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

g = 4.42328425e-003
 h = 6.49215186e-004
 i = 2.39116489e-005
 j = 2.24588025e-006
 f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	3284.829	-1.5000	0.00001
1.0000	3473.529	1.0000	-0.00001
4.5000	3750.703	4.5000	0.00000
8.0000	4043.414	8.0000	-0.00002
11.5000	4352.080	11.5000	-0.00002
15.0000	4677.105	15.0000	0.00003
18.5000	5018.868	18.5000	0.00003
22.0000	5377.745	22.0000	-0.00001
25.5000	5754.107	25.5000	0.00001
29.0000	6148.285	28.9999	-0.00006
32.5000	6560.637	32.5000	0.00003

f = Instrument Output (Hz)

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

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

