Sea-Bird Scientific 13431 NE 20th Street Bellevue, WA 98005 USA +1 425-643-9866 seabird@seabird.com www.seabird.com

SENSOR SERIAL NUMBER: 2320 SBE 63 OXYGEN TEMPERATURE CALIBRATION DATA CALIBRATION DATE: 25-Mar-25 ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

TA0 = 7.207027e-04 TA2 = 1.122775e-06 TA1 = 2.460387e-04 TA3 = 8.732490e-08

BATH TEMP	INSTRUMENT	INST TEMP	RESIDUAL
(° C)	OUTPUT(V)	(° C)	(° C)
1.9999	1.12336	2.0001	0.00019
2.0000	1.12336	2.0001	0.00009
2.0001	1.12337	1.9998	-0.00032
2.0002	1.12336	2.0001	-0.00011
6.0000	0.99873	6.0003	0.00034
6.0001	0.99873	6.0003	0.00024
6.0002	0.99873	6.0003	0.00014
6.0004	0.99874	6.0000	-0.00040
11.9998	0.83227	12.0001	0.00025
11.9998	0.83228	11.9997	-0.00014
12.0002	0.83227	12.0001	-0.00015
12.0002	0.83227	12.0001	-0.00015
19.9998	0.64786	19.9997	-0.00013
20.0000	0.64786	19.9997	-0.00033
20.0000	0.64785	20.0002	0.00016
20.0001	0.64785	20.0002	0.00006
26.0000	0.53537	26.0000	0.00002
26.0000	0.53537	26.0000	0.00002
26.0001	0.53537	26.0000	-0.00008
26.0001	0.53536	26.0006	0.00051
29.9996	0.47128	29.9994	-0.00023
29.9999	0.47127	30.0000	0.00013
29.9999	0.47127	30.0000	0.00013
30.0003	0.47127	30.0000	-0.00027

V = Instrument Output (Volts)

L = ln (100000 * V / (3.3 - V))

Temperature ITS-90 (°C) = $1 / (TA0 + (TA1 * L) + (TA2 * L^2) + (TA3 * L^3)) - 273.15$

