SENSOR SERIAL NUMBER: 4016 CALIBRATION DATE: 15-Feb-25 SBE 63 OXYGEN TEMPERATURE CALIBRATION DATA ITS-90 TEMPERATURE SCALE

## **COEFFICIENTS:**

TA0 = 7.280120e-004 TA2 = 1.426122e-006 TA1 = 2.435132e-004 TA3 = 7.472588e-008

BATH TEMP	INSTRUMENT	INST TEMP	RESIDUAL
(° C)	OUTPUT(V)	(° C)	(° C)
1.9999	1.12454	1.9998	-0.00009
2.0001	1.12453	2.0001	0.00002
2.0001	1.12453	2.0001	0.00002
2.0001	1.12453	2.0001	0.00002
5.9998	0.99970	5.9998	0.00002
6.0000	0.99970	5.9998	-0.00018
6.0000	0.99969	6.0002	0.00015
6.0001	0.99969	6.0002	0.00005
11.9999	0.83295	12.0002	0.00027
11.9999	0.83296	11.9998	-0.00012
11.9999	0.83296	11.9998	-0.00012
12.0001	0.83295	12.0002	0.00007
20.0000	0.64827	20.0000	-0.00002
20.0001	0.64827	20.0000	-0.00012
20.0001	0.64827	20.0000	-0.00012
20.0001	0.64827	20.0000	-0.00012
25.9998	0.53565	25.9998	0.00003
26.0000	0.53565	25.9998	-0.00017
26.0000	0.53564	26.0004	0.00041
26.0002	0.53564	26.0004	0.00021
29.9998	0.47148	29.9998	0.00001
30.0000	0.47147	30.0005	0.00047
30.0001	0.47148	29.9998	-0.00029
30.0002	0.47148	29.9998	-0.00039

V = Instrument Output (Volts)

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

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

