



Sea-Bird Scientific  
13431 NE 20<sup>th</sup> Street  
Bellevue, WA 98005  
USA

+1 425-643-9866  
seabird@seabird.com  
www.seabird.com

SENSOR SERIAL NUMBER: 3704  
CALIBRATION DATE: 08-Jun-19

#### SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS:  
Soc = 0.4084  
Voffset = -0.4790  
Tau20 = 1.17  
A = -3.3464e-003  
B = 1.7471e-004  
C = -2.4167e-006  
E nominal = 0.036

NOMINAL DYNAMIC COEFFICIENTS  
D1 = 1.92634e-4  
D2 = -4.64803e-2  
H1 = -3.300000e-2  
H2 = 5.00000e+3  
H3 = 1.45000e+3

BATH OXYGEN (ml/l)	BATH TEMPERATURE (° C)	BATH SALINITY (PSU)	INSTRUMENT OUTPUT (volts)	INSTRUMENT OXYGEN (ml/l)	RESIDUAL (ml/l)
1.17	2.00	0.00	0.778	1.17	-0.00
1.18	6.00	0.00	0.813	1.17	-0.00
1.18	12.00	0.00	0.869	1.18	-0.00
1.18	20.00	0.00	0.940	1.18	0.00
1.19	26.00	0.00	0.998	1.19	0.00
1.20	30.00	0.00	1.040	1.20	0.00
3.94	2.00	0.00	1.483	3.94	-0.00
3.95	6.00	0.00	1.606	3.95	0.00
3.96	12.00	0.00	1.791	3.96	0.00
3.96	20.00	0.00	2.030	3.96	0.00
3.98	26.00	0.00	2.214	3.98	0.00
3.99	30.00	0.00	2.343	3.99	0.00
6.74	2.00	0.00	2.195	6.74	-0.00
6.78	6.00	0.00	2.413	6.78	0.00
6.80	12.00	0.00	2.729	6.80	-0.00
6.87	30.00	0.00	3.686	6.87	-0.00
6.89	20.00	0.00	3.174	6.89	-0.00
6.91	26.00	0.00	3.492	6.91	-0.00

V = instrument output (volts); T = temperature (°C); S = salinity (PSU); K = temperature (°K)

Oxsol(T,S) = oxygen saturation (ml/l); P = pressure (dbar)

Oxygen (ml/l) = Soc \* (V + Voffset) \* (1.0 + A \* T + B \* T<sup>2</sup> + C \* T<sup>3</sup>) \* Oxsol(T,S) \* exp(E \* P / K)

Residual (ml/l) = instrument oxygen - bath oxygen

