Sea-Bird Scientific
13431 NE 20th Street
Bellevue, WA 98005
USA

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

SENSOR SERIAL NUMBER: 3831
CALIBRATION DATE: 23-Feb-24

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS:
Soc = 0.4860
Voffset = -0.5022
Tau20 = 1.31
A = -2.7482e-003
B = 1.5164e-004
C = -2.3797e-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)
1.18	2.00	0.00	0.753	1.17	-0.00
1.18	12.00	0.00	0.829	1.18	-0.00
1.18	6.00	0.00	0.785	1.18	-0.00
1.19	20.00	0.00	0.892	1.19	0.00
1.19	26.00	0.00	0.940	1.19	0.00
1.19	30.00	0.00	0.973	1.20	0.00
3.88	2.00	0.00	1.331	3.88	-0.00
3.91	6.00	0.00	1.437	3.91	0.00
3.93	12.00	0.00	1.590	3.93	-0.00
3.94	20.00	0.00	1.797	3.95	0.01
3.95	26.00	0.00	1.950	3.95	0.01
3.95	30.00	0.00	2.052	3.94	-0.00
6.61	2.00	0.00	1.915	6.61	0.00
6.66	6.00	0.00	2.096	6.67	0.00
6.70	12.00	0.00	2.358	6.70	-0.00
6.81	30.00	0.00	3.180	6.81	-0.00
6.82	20.00	0.00	2.737	6.82	-0.00
6.84	26.00	0.00	3.007	6.84	-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)

$$\text{Oxygen (ml/l)} = \text{Soc} * (V + \text{Voffset}) * (1.0 + A * T + B * T^2 + C * T^3) * \text{Oxsol}(T,S) * \exp(E * P / K)$$

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