

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

21-Aug-19 1.0000

SENSOR SERIAL NUMBER: 2318 CALIBRATION DATE: 21-Aug-19

SBE 63 OXYGEN CALIBRATION DATA

## COEFFICIENTS:

A0 = 1.0513e + 000 B0 = -2.4246e - 001 C0 = 1.0301e - 001 E = 1.1000e - 002

A1 = -1.5000e-003 B1 = 1.6391e+000 C1 = 4.3798e-003

A2 = 4.1207e-001 C2 = 6.0449e-005

BATH OXYGEN (mi/l)	BATH TEMPERATURE (° C)	BATH SALINITY (PSU)	INSTRUMENT OUTPUT (µsec)	INSTRUMENT OXYGEN (ml/i)	RESIDUAL (ml/l)
0.696	30.00	0.00	31.19	0.693	-0.004
0.729	26.00	0.00	31.79	0.726	-0.003
0.782	20.00	0.00	32.75	0.779	-0.003
0.867	12,00	0.00	34.10	0.866	-0.001
0.952	6.00	0.00	35.11	0.953	0.001
1.039	2.00	0.00	35.71	1,041	0.002
2.148	30.00	0.00	22.84	2.147	-0.001
2:273	26,00	0.00	23.40	2,273	0.000
2.437	20,00	0.00	24.48	2.437	0.000
2.936	12.00	0.00	25.39	2.936	0.000
3.313	6.00	0.00	26.41	3.314	0.001
3.576	30.00	0.00	18.87	3.574	-0,002
3.646	2,00	0.00	27.07	3,645	-0.001
3.814	26.00	0.00	19.33	3.813	-0.001
4.256	20.00	0.00	20.01	4.256	0.000
4.993	12.00	0.00	21.06	4.991	-0.002
5.025	30.00	0.00	16.42	5.027	0,002
5.448	26.00	0.00	16.71	5.451	0.003
5.685	6.00	0.00	21.95	5.689	0.003
6.132	20.00	0.00	17,27	6.129	-0.003
6.275	2.00	0.00	22.56	6.277	0.003
7.160	12.00	0.00	18.24	7.161	0.001
8.176	6.00	0.00	19.04	8.174	-0.001
8.664	2,00	0.00	19.93	8.661	-0.003

 $T = temperature (^{\circ}C)$ , P = pressure (dbar), U = Instrument output (µsec)

 $S_{corr}$  (salinity correction function) = 1.0 for calibration in DI water

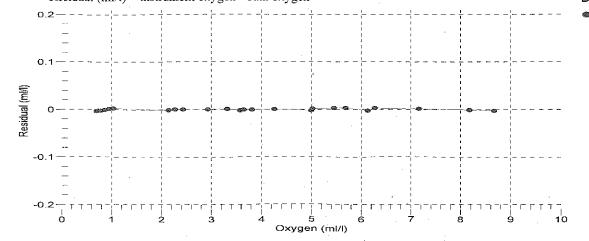
See the user manual for more information on S calculation

V = U / 39.457071

Oxygen (ml/l) = {((A0 + A1\*T + A2 \*  $V^2$ )/(B0 + B1 \*  $V^2$ ) - 1.0)/(C0 + C1 \* T + C2 \*  $T^2$ )} \*  $S_{crit}$  \* exp(E \* P / (T + 273.15))

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

Date, Slope Correction





## SBE37-SMP-ODO MicroCAT

## **Instrument Configuration**

Instrument Serial Number:

37-21146

Instrument Firmware Version:

6.1.2

Zero Conductivity Frequency:

2611.77

Communications Format:

RS232

Communications Settings:

9600 baud, 8 Data Bits, No Parity

## Installed Devices/Sensors

Data Format	Measurement	Sensor Type	Serial Number	Rating
Count	Temperature	Internal	N/A	N/A
Frequency	Conductivity	Internal	N/A	N/A
Count	Pressure Sensor	Kistler	5059699	2000m(2000 dBar)
RS232	Oxygen	SBE 63	63-2320	7000m

Maximum Depth:

2000m

CAUTION - The maximum deployment depth will be limited by the measurement range of the pressure sensor, if installed, an attached sensor, if installed, or the housing.