SEA-BIRD SCIENTIFIC

SBE37-SMP-ODO MicroCAT

Instrument Configuration

Instrument Serial Number:	37-21147
Instrument Firmware Version:	6.1.2
Zero Conductivity Frequency:	2683.03
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	5059700	2000m(2000 dBar)
RS232	Oxygen	SBE 63	63-2323	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.

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

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

SENSOR SERIAL NUMBER: 21147
CALIBRATION DATE: 25-Aug-19

SBE 37 V2 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -1.655572e-004
a1 = 3.172163e-004
a2 = -5.099207e-006
a3 = 2.176596e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	566137.1	1.0000	0.0000
4.5000	484722.2	4.5000	-0.0000
15.0000	310243.1	15.0000	-0.0000
18.5000	269033.2	18.5000	0.0000
23.9999	216337.2	24.0000	0.0001
29.0000	178530.6	28.9998	-0.0002
32.5000	156588.5	32.5001	0.0001

n = Instrument Output (counts)

Temperature ITS-90 (°C) = $1/\{a0 + a1[ln(n)] + a2[ln^2(n)] + a3[ln^3(n)]\} - 273.15$

Residual (°C) = instrument temperature - bath temperature