



SEA-BIRD  
SCIENTIFIC

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SENSOR SERIAL NUMBER: 21145  
CALIBRATION DATE: 28-Aug-19

SBE 37 V2 TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -1.797573e-004

a1 = 3.200483e-004

a2 = -5.298528e-006

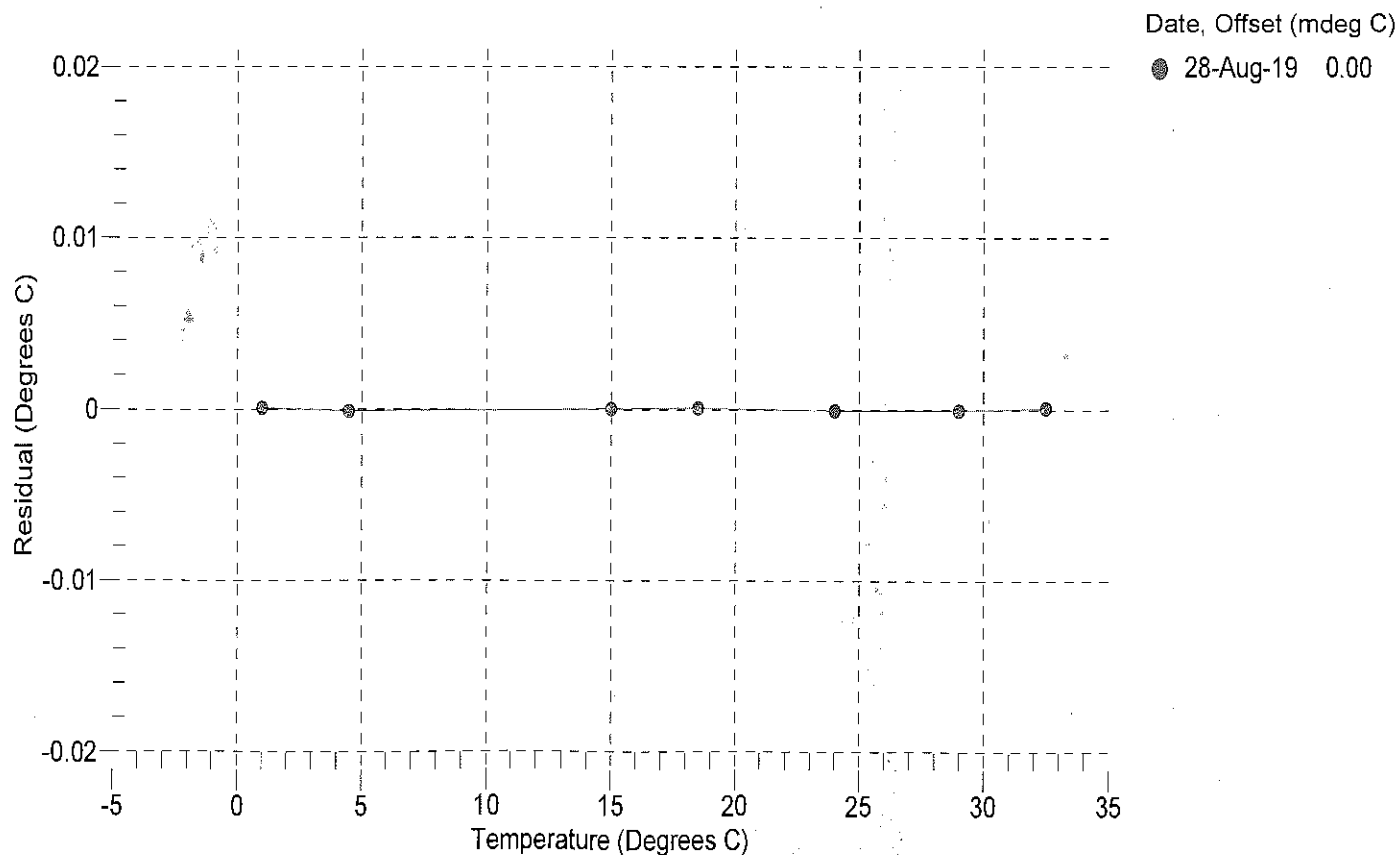
a3 = 2.218687e-007

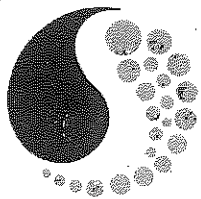
BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	569731.8	1.0001	0.0001
4.5000	487756.3	4.4999	-0.0001
15.0000	312103.7	15.0000	0.0000
18.5000	270627.0	18.5001	0.0001
24.0000	217598.4	23.9999	-0.0001
29.0000	179556.3	28.9999	-0.0001
32.4999	157481.5	32.5000	0.0001

n = Instrument Output (counts)

Temperature ITS-90 (°C) =  $1/\{a_0 + a_1[\ln(n)] + a_2[\ln^2(n)] + a_3[\ln^3(n)]\} - 273.15$

Residual (°C) = instrument temperature - bath temperature





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## SBE37-SMP-ODO MicroCAT

### Instrument Configuration

Instrument Serial Number: 37-21145  
Instrument Firmware Version: 6.1.2  
Zero Conductivity Frequency: 2647.35  
Communications Format: RS232  
Communications Settings: 9600 baud, 8 Data Bits, No Parity

### Installed Devices/Sensors

<i>Data Format</i>	<i>Measurement</i>	<i>Sensor Type</i>	<i>Serial Number</i>	<i>Rating</i>
Count	Temperature	Internal	N/A	N/A
Frequency	Conductivity	Internal	N/A	N/A
Count	Pressure Sensor	Kistler	5044127	2000m(2000 dBar)
RS232	Oxygen	SBE 63	63-2318	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.