



**SEA-BIRD**  
SCIENTIFIC

## SBE56 ECO Temperature Logger

### Instrument Configuration

Instrument Serial Number: 56-13401  
Instrument Firmware Version: 1.02  
Communications Format: RS232

### 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

Maximum Depth: **1500m**

**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.



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SENSOR SERIAL NUMBER: 13401  
CALIBRATION DATE: 20-Aug-23

SBE 56 TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -1.330517e-003  
a1 = 3.580014e-004  
a2 = -7.163856e-006  
a3 = 2.122243e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	20656498.9	-1.5000	0.0000
1.0000	18448155.6	1.0000	-0.0000
4.5000	15793568.4	4.5000	0.0000
8.0000	13566145.1	8.0000	-0.0000
11.5000	11690613.4	11.5000	0.0000
15.0000	10106162.9	15.0000	0.0000
18.5000	8763224.8	18.5000	0.0000
22.0000	7621391.0	22.0000	0.0000
25.5000	6647544.9	25.5000	-0.0000
29.0000	5814443.2	29.0000	0.0000
32.5000	5099698.0	32.5000	0.0000

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

