



**SEA-BIRD**  
SCIENTIFIC

## SBE56 ECO Temperature Logger

### Instrument Configuration

Instrument Serial Number: 56-13411  
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.



Sea-Bird Scientific  
13431 NE 20<sup>th</sup> Street  
Bellevue, WA 98005  
USA

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

SENSOR SERIAL NUMBER: 13411  
CALIBRATION DATE: 20-Aug-23

SBE 56 TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -1.463303e-003  
a1 = 3.731793e-004  
a2 = -7.807234e-006  
a3 = 2.256292e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	20358587.9	-1.5000	-0.0000
1.0000	18214830.6	1.0001	0.0001
4.5000	15632761.2	4.5000	0.0000
8.0000	13460965.3	8.0000	-0.0000
11.5000	11628029.4	11.5000	-0.0000
15.0000	10075969.2	15.0000	-0.0000
18.5000	8757504.1	18.5000	0.0000
22.0000	7634002.6	22.0000	-0.0000
25.5000	6673643.0	25.5000	0.0000
29.0000	5850351.0	29.0000	0.0000
32.5000	5142506.0	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

