



SEA-BIRD
SCIENTIFIC

SBE56 ECO Temperature Logger

Instrument Configuration

Instrument Serial Number: 56-13381
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: 13381
CALIBRATION DATE: 20-Aug-23

SBE 56 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -1.306478e-003
a1 = 3.604017e-004
a2 = -7.498539e-006
a3 = 2.178171e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	20922783.8	-1.4999	0.0001
1.0000	18657155.9	0.9998	-0.0002
4.5000	15938151.3	4.5001	0.0001
8.0000	13661587.8	8.0000	0.0000
11.5000	11748636.1	11.5000	0.0000
15.0000	10135815.7	14.9999	-0.0001
18.5000	8771491.0	18.5000	0.0000
22.0000	7613737.7	22.0000	0.0000
25.5000	6628221.8	25.5000	-0.0000
29.0000	5786719.8	29.0000	0.0000
32.5000	5066113.0	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

