SBE56 ECO Temperature Logger

Instrument Configuration

Instrument Serial Number: 56-13399
Instrument Firmware Version: 1.02
Communications Format: RS232

Installed Devices/Sensors

Data Format	Measurement	Sensor Type	Serial Number	Rating
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: 13399
CALIBRATION DATE: 20-Aug-23

SBE 56 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:
a0 = -1.301714e-003
a1 = 3.502383e-004
a2 = -6.597251e-006
a3 = 2.009812e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	20309298.2	-1.5000	0.0000
1.0000	18149379.9	0.9999	-0.0001
4.5000	15551094.0	4.5000	0.0000
8.0000	13369136.5	8.0000	0.0000
11.5000	11530540.3	11.4999	-0.0001
15.0000	9975875.4	15.0001	0.0001
18.5000	8657293.2	18.4999	-0.0001
22.0000	7535179.8	22.0000	0.0000
25.5000	6577431.9	25.5000	0.0000
29.0000	5757498.2	29.0000	0.0000
32.5000	5053515.0	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

Date, Offset (mdeg C)
● 19-Aug-23   -0.11
▲ 20-Aug-23   -0.00