SBE56 ECO Temperature Logger

Instrument Configuration

Instrument Serial Number:	56-13413
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: 13413
CALIBRATION DATE: 20-Aug-23

SBE 56 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

```
a0 = -1.279709e-003
a1 =  3.473806e-004
a2 = -6.472758e-006
a3 =  1.989778e-007
```

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	20335067.1	-1.5000	-0.0000
1.0000	18169849.1	1.0000	0.0000
4.5000	15565668.3	4.5000	0.0000
8.0000	13379104.8	8.0000	-0.0000
11.5000	11536799.7	11.5000	-0.0000
15.0000	9979386.9	15.0001	0.0001
18.5000	8658592.1	18.5000	-0.0000
22.0000	7534842.4	22.0000	-0.0000
25.5000	6575825.5	25.5000	-0.0000
29.0000	5754935.9	29.0000	0.0000
32.5000	5050257.5	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