

# SBE 56 ECO Temperature Logger

### **Instrument Configuration**

Instrument Serial Number: 56-04742
Instrument Firmware Version: 0.96
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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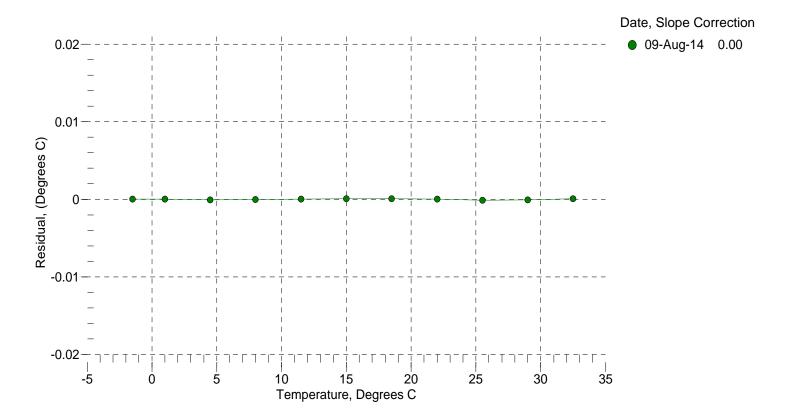
SENSOR SERIAL NUMBER: 04742 CALIBRATION DATE: 09-Aug-14 SBE 56 TEMPERATURE CALIBRATION DATA ITS-90 TEMPERATURE SCALE

#### **COEFFICIENTS:**

a0 = -1.042667e-003 a1 = 3.116191e-004 a2 = -4.565620e-006 a3 = 1.610692e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5000	20706227.1	-1.5000	0.0000
1.0000	18475674.3	1.0000	0.0000
4.5000	15797127.2	4.4999	-0.0001
8.0000	13552055.4	8.0000	-0.0000
11.5000	11663847.1	11.5000	0.0000
15.0000	10070392.7	15.0001	0.0001
18.5000	8721309.4	18.5001	0.0001
22.0000	7575480.3	22.0000	0.0000
25.5000	6599240.9	25.4999	-0.0001
29.0000	5764949.3	28.9999	-0.0001
32.5000	5049867.5	32.5001	0.0001

Temperature ITS-90 =  $1/{a0 + a1[ln(n)] + a2[ln^2(n)] + a3[ln^3(n)]} - 273.15$  (°C) Residual = instrument temperature - bath temperature n = instrument output





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## **Pressure Test Certificate**

Test Date: 08/04/14 Description: SBE-56 Temperature Sensor

#### **Sensor Information:**

Model Number: 56

Serial Number: **04742** 

#### **Pressure Test Protocol:**

Low Pressure Test: 40 PSI Held For: 15 Minutes

High Pressure Test: 2300 PSI Held For: 15 Minutes

Passed Test: Yes

Pressure

Pressure

Typical Test Profile

High pressure is generally equal to the maximum depth rating of the instrument

Typical Test Profile