



Sea-Bird Electronics, Inc.

Advancing the Science of Ocean Measurement

SBE 56 ECO Temperature Logger

Instrument Configuration

Instrument Serial Number: 56-04627
Instrument Firmware Version: 0.96
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: 04627

CALIBRATION DATE: 25-Jun-14

SBE 56 TEMPERATURE CALIBRATION DATA

ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -1.164424e-003

a1 = 3.329992e-004

a2 = -5.826954e-006

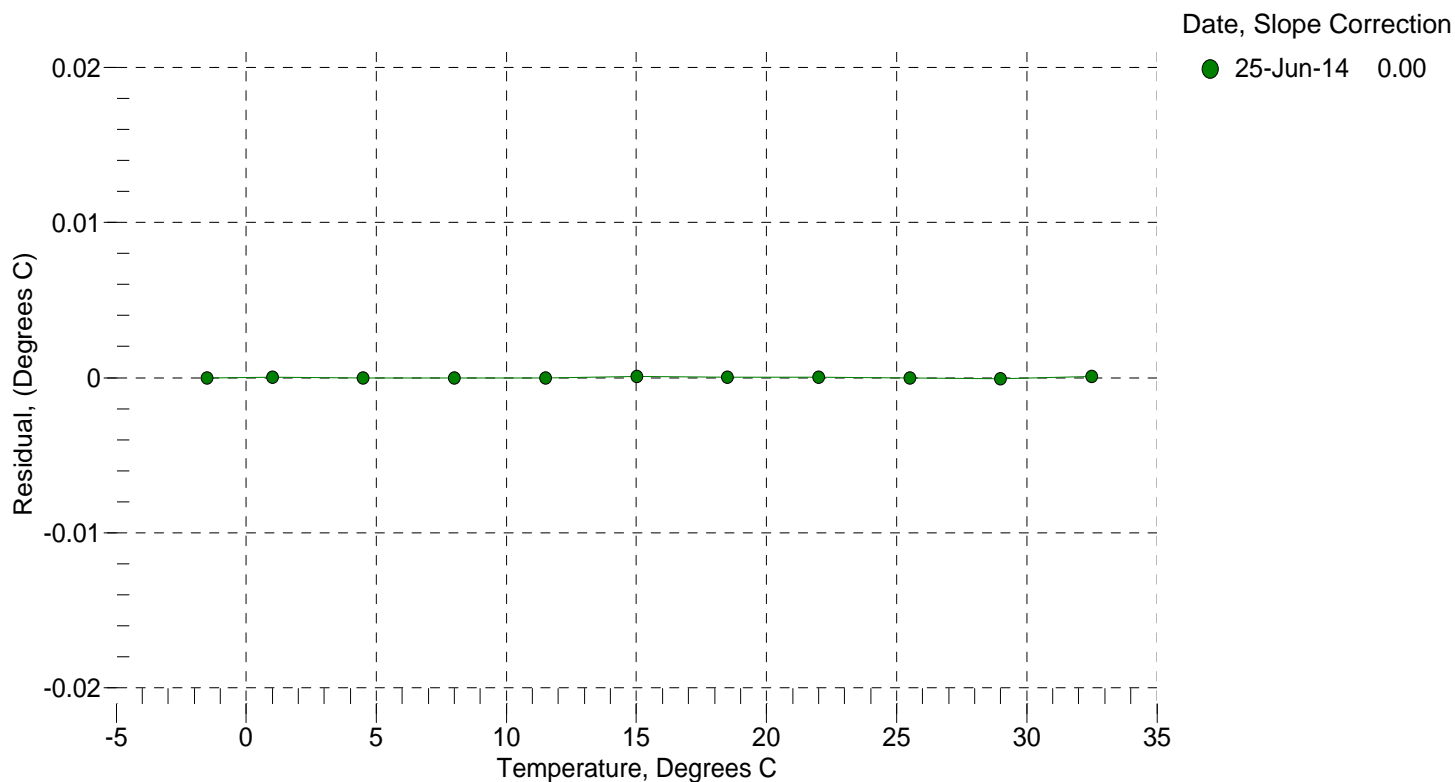
a3 = 1.867131e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5000	20493204.9	-1.5000	-0.0000
1.0000	18290053.4	1.0000	0.0000
4.5000	15643702.1	4.5000	-0.0000
8.0000	13424923.2	8.0000	-0.0000
11.5000	11558232.1	11.5000	-0.0000
15.0000	9982442.1	15.0001	0.0001
18.5000	8647972.4	18.5000	0.0000
22.0000	7514190.4	22.0000	0.0000
25.5001	6547944.0	25.5001	-0.0000
29.0001	5722033.2	29.0000	-0.0001
32.5000	5013969.7	32.5001	0.0001

Temperature ITS-90 = $1/\{a_0 + a_1[\ln(n)] + a_2[\ln^2(n)] + a_3[\ln^3(n)]\} - 273.15$ (°C)

Residual = instrument temperature - bath temperature

n = instrument output





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Pressure Test Certificate

Test Date: **06/17/14**

Description: **SBE-56 Temperature Sensor**

Sensor Information:

Model Number: **56**

Serial Number: **04627**

Pressure Test Protocol:

Low Pressure Test: **40** PSI Held For: **15** Minutes

High Pressure Test: **2300** PSI Held For: **15** Minutes

Passed Test: **Yes**

Tested By: **DC**

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

