



Sea-Bird Electronics, Inc.

Advancing the Science of Ocean Measurement

SBE 56 ECO Temperature Logger

Instrument Configuration

Instrument Serial Number: 56-04613

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: 04613
CALIBRATION DATE: 25-Jun-14

SBE 56 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

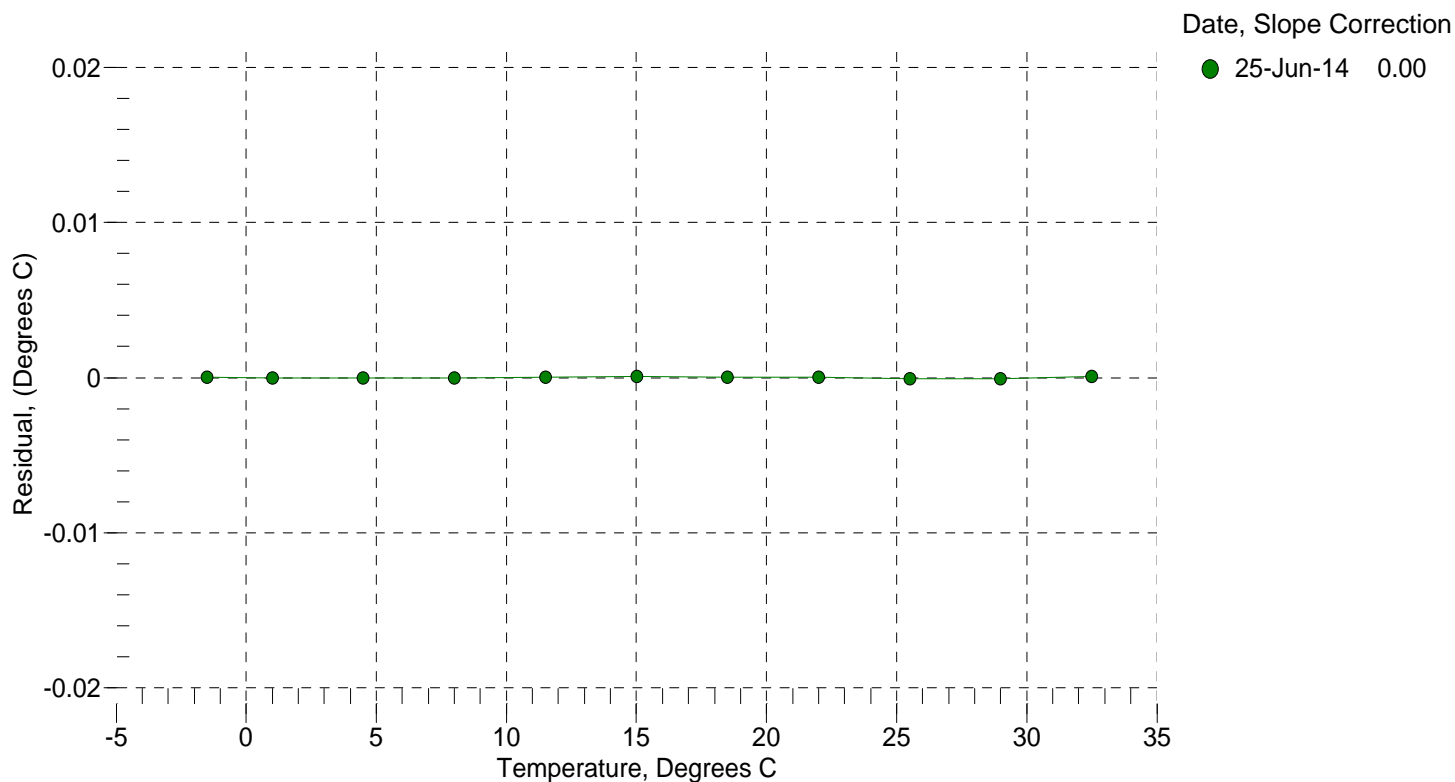
a0 = -1.176598e-003
a1 = 3.359748e-004
a2 = -6.025779e-006
a3 = 1.900468e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5000	20669514.0	-1.5000	0.0000
1.0000	18441607.5	1.0000	-0.0000
4.5000	15766444.9	4.5000	-0.0000
8.0000	13524523.1	8.0000	-0.0000
11.5000	11639145.9	11.5000	0.0000
15.0000	10048297.9	15.0001	0.0001
18.5000	8701607.7	18.5000	0.0000
22.0000	7557916.0	22.0000	0.0000
25.5001	6583621.0	25.5000	-0.0001
29.0001	5751127.0	29.0000	-0.0001
32.5000	5037702.5	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: **06/14/14**

Description: **SBE-56 Temperature Sensor**

Sensor Information:

Model Number: **56**

Serial Number: **04613**

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

