



Sea-Bird Electronics, Inc.

Advancing the Science of Ocean Measurement

SBE 56 ECO Temperature Logger

Instrument Configuration

Instrument Serial Number: 56-04591
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.



Support Telephone: (+1)425-643-9866
Support Email: seabird@seabird.com

Sea-Bird Electronics, Inc.

13431 NE 20th Street, Bellevue, WA 98005-2010 USA

Phone: (+1) 425-643-9866 Fax (+1) 425-643-9954 Email: seabird@seabird.com

SENSOR SERIAL NUMBER: 04591

CALIBRATION DATE: 22-Jun-14

SBE 56 TEMPERATURE CALIBRATION DATA

ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -1.220287e-003

a1 = 3.408670e-004

a2 = -6.307232e-006

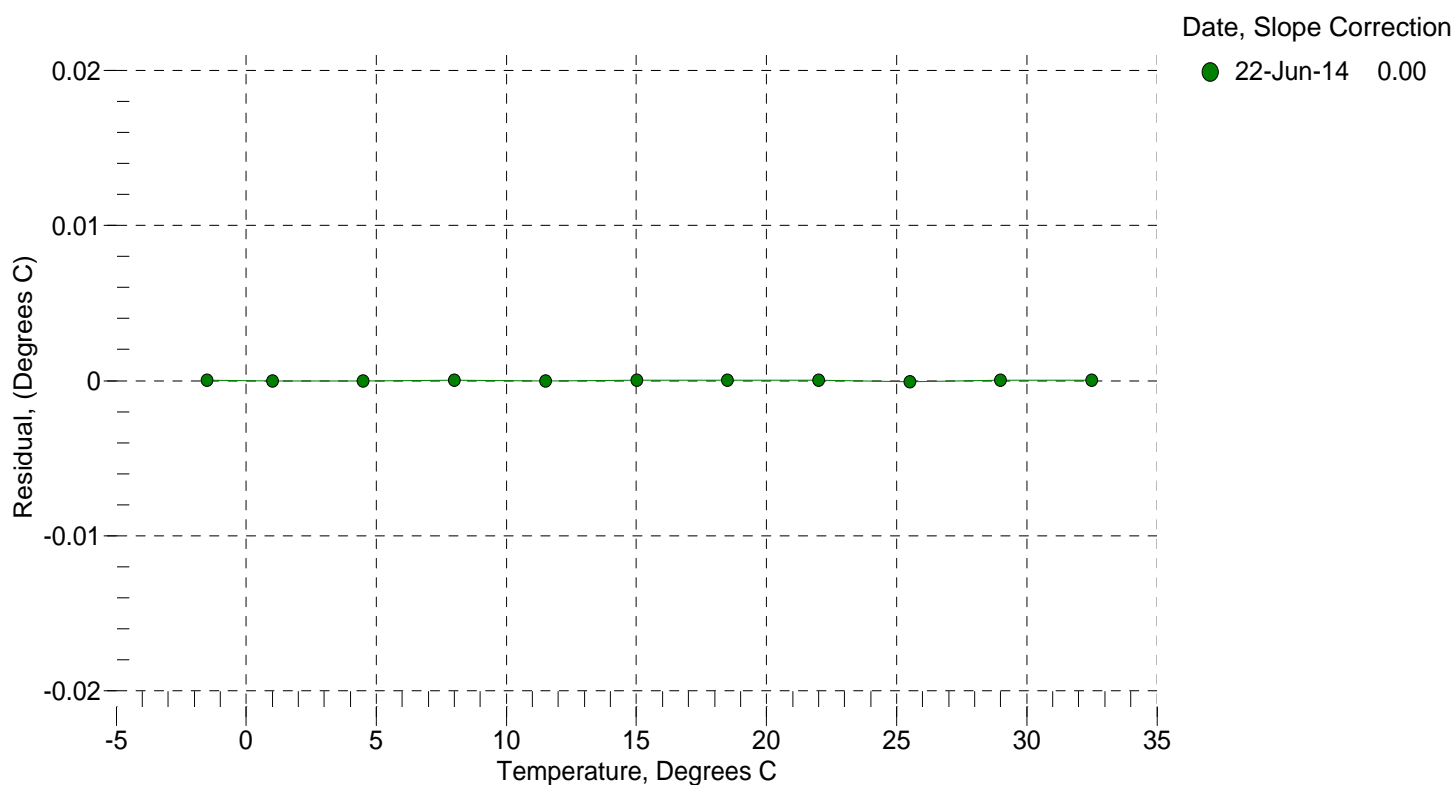
a3 = 1.981315e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5000	20844332.3	-1.5000	0.0000
1.0000	18614334.4	1.0000	-0.0000
4.5000	15933656.9	4.5000	-0.0000
8.0000	13684183.6	8.0000	0.0000
11.5000	11790186.7	11.5000	-0.0000
15.0000	10190102.9	15.0000	0.0000
18.5000	8833970.8	18.5000	0.0000
22.0000	7680972.5	22.0000	0.0000
25.5000	6697684.3	25.4999	-0.0001
29.0000	5856574.8	29.0000	0.0000
32.5000	5135030.9	32.5000	0.0000

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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13431 NE 20th St. Bellevue, Washington 98005 USA
www.seabird.com

Phone: (425) 643-9866

Fax: (425) 643-9954

Email: seabird@seabird.com

Pressure Test Certificate

Test Date: **06/13/14**

Description: **SBE-56 Temperature Sensor**

Sensor Information:

Model Number: **56**

Serial Number: **04591**

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

