



SEA-BIRD
SCIENTIFIC

SBE Sea-Bird
Electronics

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SBE38 Digital Oceanographic Thermometer

Instrument Configuration

Instrument Serial Number: 38-0841
Instrument Firmware Version: 1.4
Communications Format: RS232
Communications Settings: 9600 baud, 8 Data Bits, No Parity

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: **10500m**

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: 0841

CALIBRATION DATE: 26-Sep-15

SBE 38 TEMPERATURE CALIBRATION DATA

ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 7.522372e-005

a1 = 2.707192e-004

a2 = -2.202956e-006

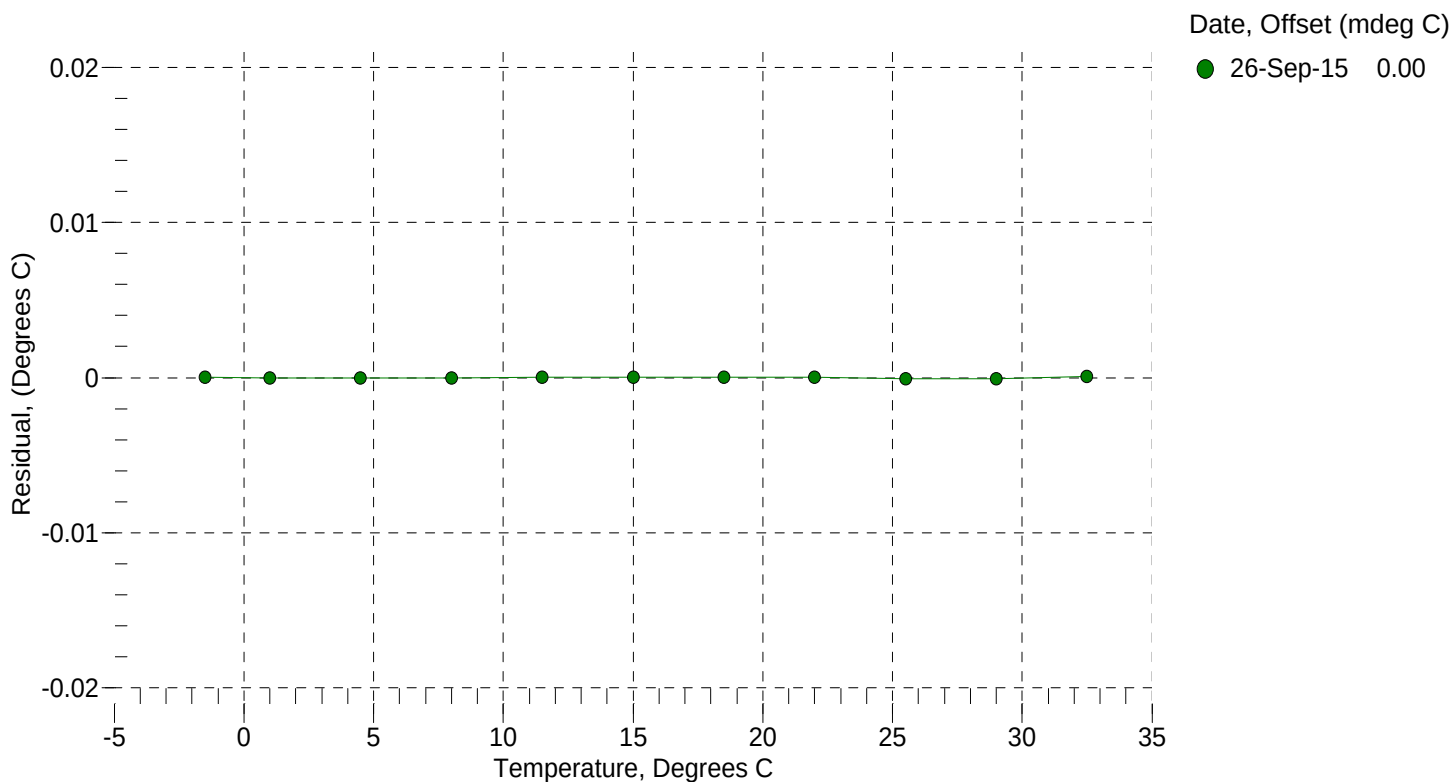
a3 = 1.462948e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5000	711652.2	-1.5000	0.0000
1.0000	634020.6	1.0000	-0.0000
4.5000	540943.3	4.5000	-0.0000
8.0000	463076.7	8.0000	-0.0000
11.5000	397708.8	11.5000	0.0000
15.0000	342649.4	15.0000	0.0000
18.5000	296118.9	18.5000	0.0000
22.0000	256671.0	22.0000	0.0000
25.5000	223124.1	25.4999	-0.0001
29.0000	194507.8	28.9999	-0.0001
32.5000	170025.6	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: **03/25/15**

Description: **SBE-38 Digital Thermometer**

Sensor Information:

Model Number: **38**

Serial Number: **0841**

Pressure Test Protocol:

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

High Pressure Test: **10000** PSI Held For: **15** Minutes

Passed Test: **Yes**

Tested By: **ND**

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

