

SBE38

Digital Oceanographic Thermometer

Instrument Configuration:

Serial Number	3865557-0639
Firmware Version	1.4
Interface Type	RS-232
Baud Rate	4800
Maximum Depth	10500 meters

CAUTION - The maximum deployment depth is limited by the pressure housing to 10500m.



Sea-Bird Electronics, Inc.

13431 NE 20th St. Bellevue, Washington 98005 USA

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Email: seabird@seabird.com

SBE Pressure Test Certificate

Test Date: 3/22/2011 Description SBE-38 Digital Thermometer

Job Number: 65557 Customer Name EMS/France

SBE Sensor Information:

Model Number: 38

Serial Number: 0639

Pressure Sensor Information:

Sensor Type: None

Sensor Serial Number: None

Sensor Rating: 0

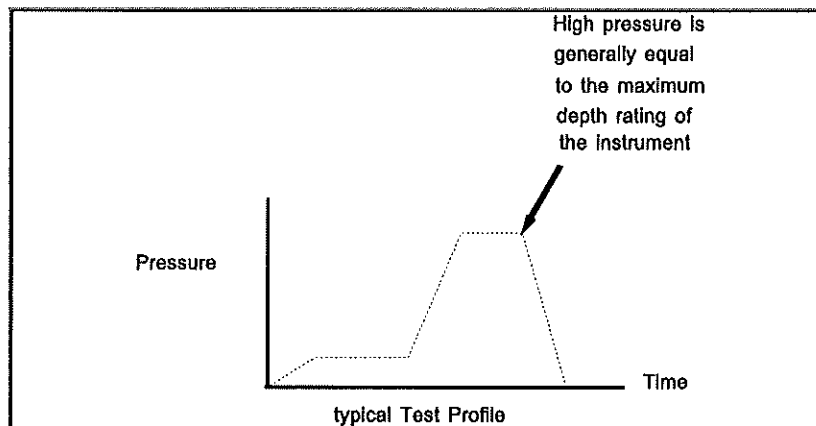
Pressure Test Protocol:

Low Pressure Test: 40 PSI Held For: 15 Minutes

High Pressure Test: 10000 PSI Held For: 15 Minutes

Passed Test:

Tested By: VG



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

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SENSOR SERIAL NUMBER: 0639
CALIBRATION DATE: 26-Aug-11

SBE 38 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = -4.502917e-006
a1 = 2.753940e-004
a2 = -2.452044e-006
a3 = 1.527765e-007

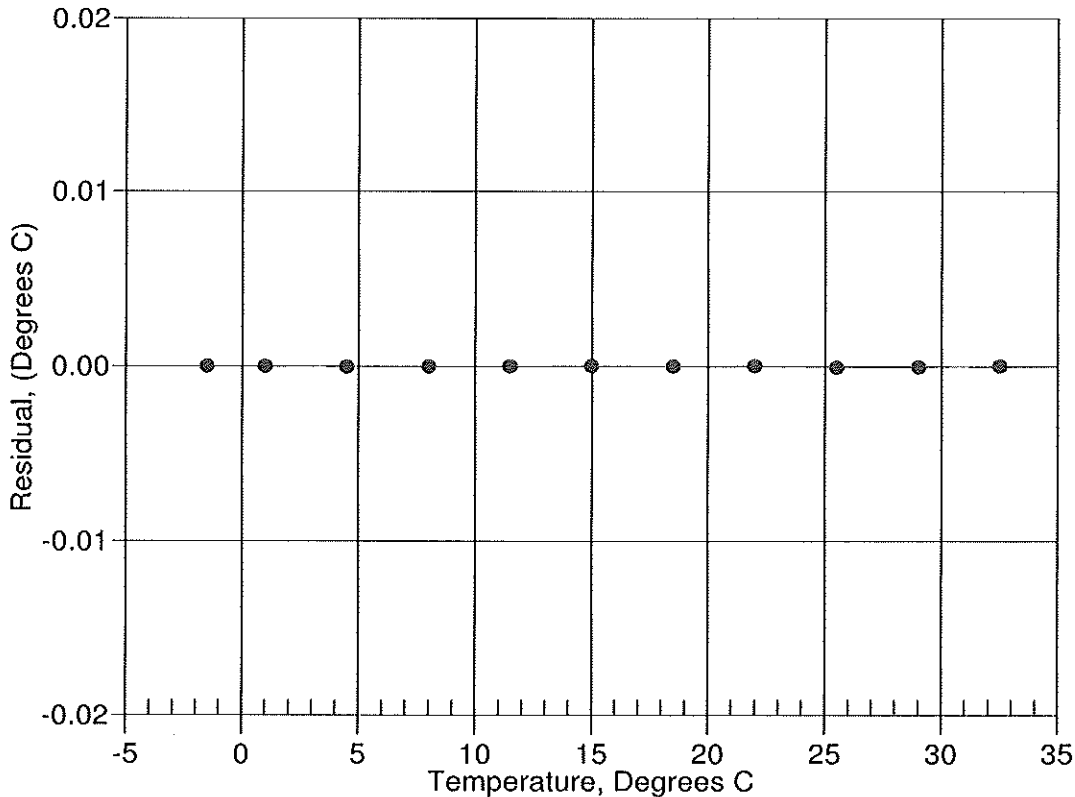
BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.50010	832868.9	-1.50009	0.00001
0.99990	742792.8	0.99990	0.00000
4.49990	634662.3	4.49988	-0.00002
7.99990	544072.3	7.99989	-0.00001
11.49990	467916.4	11.49991	0.00001
14.99990	403680.5	14.99992	0.00002
18.49990	349322.8	18.49990	0.00000
21.99990	303177.6	21.99993	0.00003
25.49990	263885.0	25.49986	-0.00004
28.99990	230325.5	28.99987	-0.00003
32.49990	201579.3	32.49993	0.00003

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

Date, Delta T (mdeg C)

● 26-Aug-11 0.00



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