SEA-BIRD SCIENTIFIC

SBE Sea-Bird Electronics

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SBE 38 DigitalOceanographicThermometer

Instrument Configuration

Instrument Serial Number:	38-0827
Instrument Firmware Version:	1.4
Communications Format:	RS232
Communications Settings:	9600 baud, 8 Data Bits, No Parity

Installed Devices/Sensors

Data Format	*Measurement*	*Sensor Type*	*Serial Number*	*Rating*
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: 0827
CALIBRATION DATE: 29-Apr-15

SBE 38 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

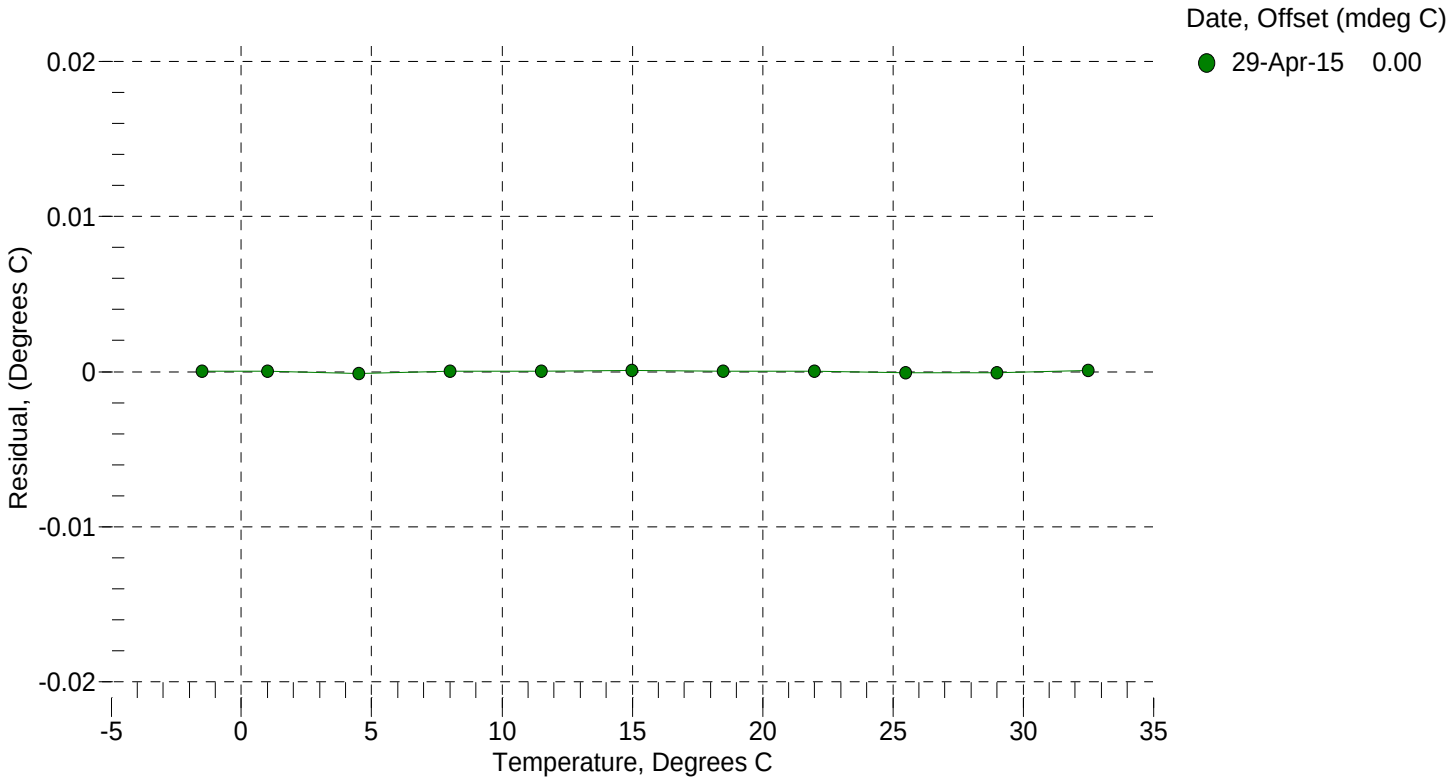
```
a0 =  5.983638e-005
a1 =  2.676231e-004
a2 = -1.975681e-006
a3 =  1.385677e-007
```

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5000	802139.8	-1.5000	0.0000
0.9999	714552.8	0.9999	0.0000
4.5000	609554.5	4.4999	-0.0001
7.9999	521731.1	7.9999	0.0000
11.4999	448017.7	11.4999	0.0000
14.9999	385937.1	15.0000	0.0001
18.5000	333482.0	18.5000	0.0000
22.0000	289017.9	22.0000	0.0000
25.5000	251210.2	25.4999	-0.0001
29.0000	218964.1	28.9999	-0.0001
32.4999	191380.3	32.5000	0.0001

Temperature ITS-90 = $1/\{a0 + a1[ln(n)] + a2[ln^2(n)] + a3[ln^3(n)]\} - 273.15$ (°C)

Residual = instrument temperature - bath temperature

n = instrument output



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Pressure Test Certificate

Test Date: 10/27/14

Description: SBE-38 Digital Thermometer

Sensor Information:

Model Number: 38

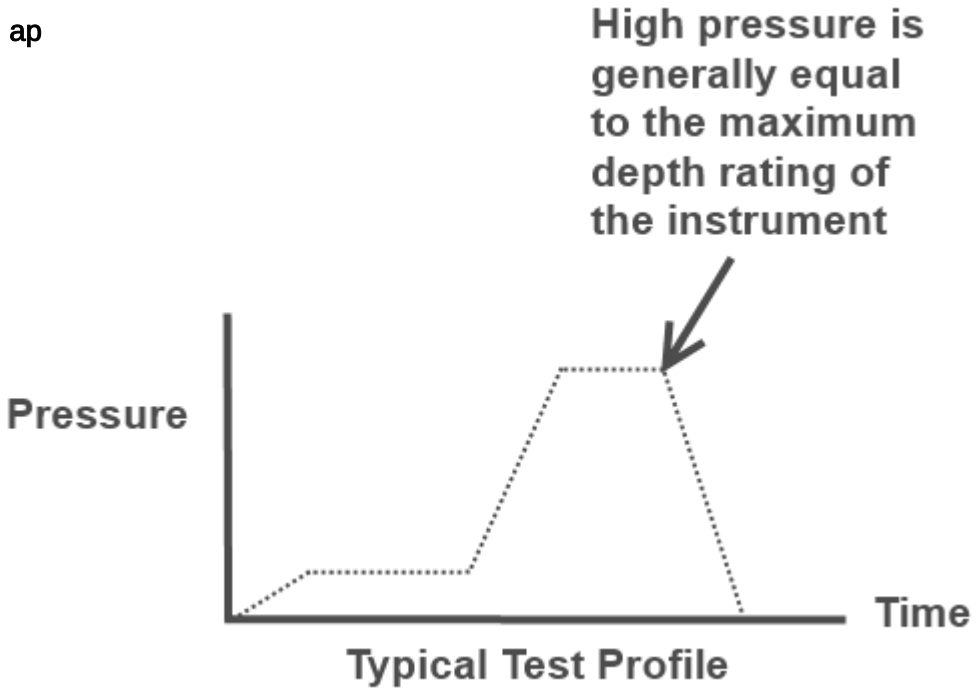
Serial Number: 0827

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: ap



Typical Test Profile