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: 0631 CALIBRATION DATE: 07-May-15

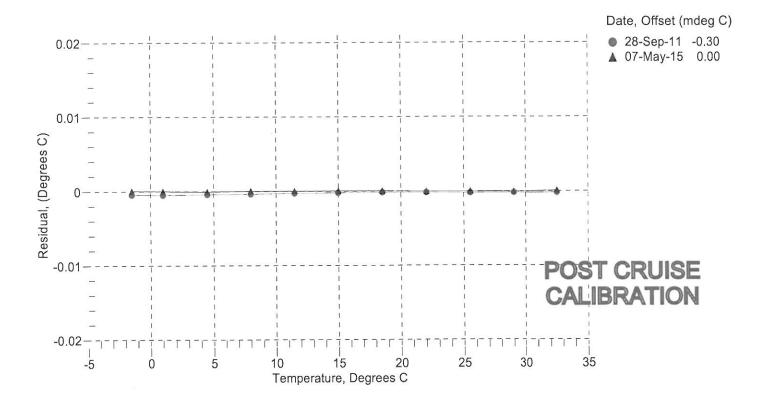
SBE 38 TEMPERATURE CALIBRATION DATA ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 4.526188e-005 a1 = 2.712580e-004 a2 = -2.241647e-006 a3 = 1.458781e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5001	791051.9	-1.5001	0.0000
0.9999	704771.7	0.9999	-0.0000
4.5000	601323.7	4.4999	-0.0001
7.9999	514780.2	7.9999	0.0000
11.5000	442126.9	11.5000	0.0000
15.0000	380929.8	15.0000	0.0000
18.5000	329211.1	18.5000	0.0000
22.0000	285364.7	22.0000	-0.0000
25.4999	248075.8	25.4999	-0.0000
29.0000	216266.6	28.9999	-0.0001
32.4999	189052.6	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





Customer:

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Phone: (425) 643-9866 Fax: (425) 643-9954 www.seabird.com

Temperature Calibration Report

The University of Alaska, Fairbanks

Job Number:	83072	Date of Repo	ort:	5/7/2015			
Model Number	SBE 38	Serial Numb	per:	3865482-0631			
Temperature sensors are normally calibrated 'as received', without adjustments, allowing a determination sensor drift. If the calibration identifies a problem, then a second calibration is performed after work is completed. The 'as received' calibration is not performed if the sensor is damaged or non-functional, or by customer request. An 'as received' calibration certificate is provided, listing coefficients to convert sensor frequency to temperature. Users must choose whether the 'as received' calibration or the previous calibration better represents the sensor condition							
during deployment. In SEASOFT enter the chosen coefficients. The coefficient 'offset' allows a small correction for drift between calibrations (consult the SEASOFT manual). Calibration coefficients obtained after a repair apply only to subsequent data. 'AS RECEIVED CALIBRATION' Performed Not Performed							
Date: 5/7/2015]	Drift since last cal:	+0.00	008 Degrees Celsius/year			
Comments:	_						
'CALIBRATION Date: Comments:	AFTER REPAIR'	Drift since Last cal:	erformed	Not Performed Degrees Celsius/year			