SEA-BIRD ELECTRONICS, INC
TELEPHONE 206 643-9866 FAX 206 643-9954
1808-136th Place Northeast, Bellevue, Washington 98005 USA
Telex 292915 SBEI UR

Temperature Calibration Report

Customer:	EMS			·
SBE Job Number:	21668R	Date of	report:08	September 1999
SBE Model Number:	3-04/F	Serial N	Number: <u>031</u>	524
Unless instructed otherwise 'as received', i.e, without realibration uncovers proble finished.	repairs or adjustments that	would prevent determina	ation of the sense	or's drift history. If
An 'as received' calibration be provided. Users may ju- represent the condition of coefficients using SEACON subsequent to the calibration	idge whether the 'as receive the sensor at the time of (i). Calibration coefficients	ved' or previously detern deployment (those using	nined coefficien SEASOFT short	ts are more likely to
'AS RECEIVED CALIBRA	ATION'		(x) Performed	() Not Performed
Date: 08 Sep 99	_ Drift since last cal:	.00277		°Celsius/year
Comments:				
'POST REPAIR CALIBRA	TION'		() Performed	(x) Not Performed
Date:	_ Drift since last cal:			°Celsius/year
Comments:				

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1808 136th Place N.E., Bellevue, Washington 98005 USA Phone: (425) 643 - 9866 Fax: (425) 643 - 9954 Internet: seabird@seabird.com

SENSOR SERIAL NUMBER = 1524 CALIBRATION DATE: 08-Sep-99s

TEMPERATURE CALIBRATION DATA ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

g	=	4.83465197e-03
h	=	6.75175619e-04
i	=	2.62999812e-05
j		2.11019218e-06
£	=	1000.000

IPTS-68 COEFFICIENTS

a	=	3.68142314e-03
b	=	6.00617459e-04
C	=	1.48180158e-05
d	=	2.11162225e-06
f,	=	6159.626

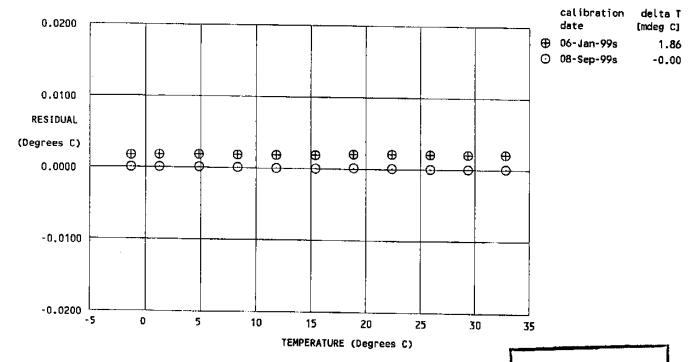
BATH TEMP	INSTRUMENT FREQ (Hz)	INST TEMP	RESIDUAL
(ITS-90 °C)		(ITS-90 °C)	(ITS-90 °C)
-1.5155 1.0454 4.6192 8.1258 11.6294 15.1896 18.6533 22.1542 25.6817 29.1529 32.6280	6159.626 6523.153 7055.919 7608.238 8190.087 8812.851 9449.936 10125.770 10839.892 11575.729 12345.904	-1.5156 1.0454 4.6192 8.1258 11.6294 15.1896 18.6534 22.1542 25.6817 29.1528 32.6280	-0.00001 0.00000 0.00002 -0.00005 -0.00006 0.00006 0.00004 -0.00002 -0.00002

Temperature ITS-90 = $1/\{g + h[\ell n(f_0/f)] + i[\ell n^2(f_0/f)] + j[\ell n^3(f_0/f)]\} - 273.15$ (°C)

Temperature IPTS-68 = $1/\{a + b[\ell n(f_0/f)] + c[\ell n^2(f_0/f)] + d[\ell n^3(f_0/f)]\}$ - 273.15 (°C)

Following the recommendation of JPOTS: T_{68} is assumed to be 1.00024 * T_{90} (-2 to 35 °C).

Residual = instrument temperature - bath temperature



POST CRUISE CALIBRATION