RBR

Conductivity Calibration Certificate

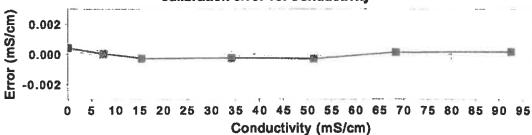
RBRIegato^a C.T.D, Teledyne Webb Slocum, dry bay (1000dbar) s/n: 207968 References: Autosal8400B#66289, MS-315#15506, SSW P164, RC#002

Coefficients 26.457904E-3	CO:	Calibration Error (mS/cm)	Messured Conductivity (mS/om)	Voltage Ratio, V	Reference Conductivity (m8/cm)	Reference Resistance (ohm)
189.51392	C1:	0.0004	0.0004	-0.000137	0.0000	open
1.001942	(K) C2:	0.0000	7.4024	0.038920	7.4024	694.042
538.52 04E- 6	300 :	-0.0003	15.4777	0.081531	15,4780	331.926
-12.133374E-6	X1:	-0.0002	34.2457	0.180563	34.2460	150.019
0.0	X2;	-0.0003	51.3672	0.270907	51,3675	100.016
0.0	X3 :	0.0001	68.4794	0.361203	68.4793	75.023
0.0	x4 :	0.0002	92.5360	0.488141	92.5358	55,520
14.863837	X5 :					
10	X6 :	Conductivity (mS/cm)	Salinity (PSS-78)	Temperature (FTS-90)	Voltage Ratio	Bath
		42.7758	34.9928	14.86384	0.2255738	T15835
		52.8655	34.9958	24.80848	0.2788079	T25835

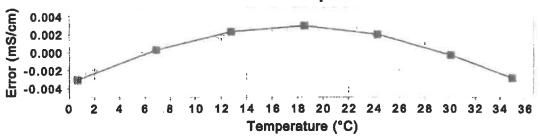
Cell Constant @T15S35 = 5.13754 1/cm

$$C_c = \frac{C_0 + C_1 * C_2 * V - X_0 * (T - X_5)}{1 + X_1 * (T - X_5) + X_2 * (P - X_6) + X_3 * (P - X_6)^2 + X_4 * (P - X_6)^3}$$

Calibration error vs. Conductivity



Calibration error vs. Temperature



Calibration Date: 2021-08-18 Issue Date: 2021-08-18

File Name: 207968_20210818_1521C.rsk

Operator: jwang

Approver:

kmalorny

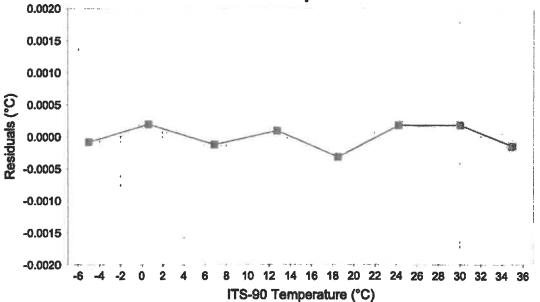


Temperature Calibration Certificate

Logger iD: RBRiegato³ Serial No: 207968 Channel No: 2

Reference Temperature, ITS-90	Voltage ratio, V	Measured Temperature, ITS-90	Calibration error		Coefficients
-4.97361	0.683896	-4.97369	-0.00008	C0:	3.5320197E-3
0.66592	0.615894	0.66612	0.00020	C1: C2:	-253.05228 E -6 2.5934678E-6
6.88648	0.538339	6.88636	-0.00012	C3:	-78.986052-9
12.79196	0.465618	12.79205	0.00010		
18.56121	0.398294	18.56089	-0.00031		
24.30635	0.336903	24.30653	0.00018		
30.10444	0.281863	30.10462	0.00018		
34.99447	0.241164	34.99433	-0.00014		

Residuals vs. Temperature



Calibration Date: 2021-08-15 Issue Date: 2021-08-16 Calibration ID: 48368

Operator: dluong

Approver:

kmalorny

RBR

Pressure Calibration Certificate

RBRiegato² C.T.D, Teledyne Webb Slocum, dry bay (1000dbar) s/n: 207968

instrument rating: 1,000 dbar s/n: N009851 Nominal accuracy: 0.05%FS (0.5 dbar)

Reference instrument: Mensor CPC6000 s/n: 612676

		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
Applie pressur	0,	Measured pressure,	Calibration		Co	efficients
P _i (dba			error (dbar)		CO:	-34.557392
•					C1:	2.3136807E3
10.1			0.0089 0.0087		C2:	36.9867
110.0			0.0085		C3:	-30.144094
209.9			0.0085		XO:	10,1104
309.9			0.0024		X1 :	79.48717E-3
409.9			0.0027		X2:	7.0892575E-6
509.9			-0.0274		X3:	-736.242 6E-9
609.9			-0.0274		X4:	-119,378863-6
709.9			0.0043		x5 :	21.74662
809.9		-	0.0163			
909.9			-0.0054			
1010.0						
n	$=X_0+\frac{P_m-X_0}{}$	$-X_1(T-X_5)-$	$X_2(T-X_5)^2-$	$X_3(T-X_5)$	₃) ³	Head (mm) = 234
P _c =	= 10 +	1+X	$_4(T-X_5)$			
D	$=C_0+C_1V+C_2$	$-V^2 + C - V^3$	-,			
Pm	$= 0_0 + 0_1 v + 0_1$	alibration error	Droodure C	Tool = 24 7	°C)	
		libration error	vs. Fressure (Çai	C)	0.02
~ 0.2						
図 0.1						0.01
=	1		-11	w	-11	0.01 Error (%FS
٠.0 <u>ک</u>				- 10		× ×
운 -0.1						-0.01 况
Ü,					-1-	-0.02
-0.2	0 100 200	300 400	500 600 7	008 00	900 1000	
	0 100 200			••		
		Pre	essure (dbar)			
	Calibra	ation error vs. 1	l'emperature (F	Patm = 10.1	l 6 dbar)	
0.5						, 0.05
E C						<u> </u>
<u>ق</u>						Q
9 0.0	B - 8-		- O O -		- 3 - 4	0.00 😪
ō					- 1	Error (%FS
Error (dbar)			197			
-0.5	51 = 1 ~		45 00	0.5	20 25	¹ -0.05

Calibration Date: 2021-08-17 issue Date: 2021-08-18

File Name:

207968_20210818_0807P.rsk

Operator:

Approver:

kmalorny

15

Temperature (°C)

20

25

30

35