RBR

Conductivity Calibration Certificate

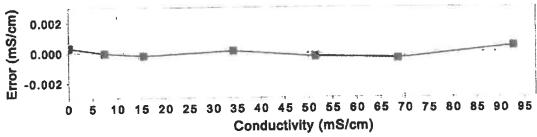
RBRiegato* C.T.D, Teledyne Webb Slocum, dry bay (1000dbar) s/n: 207975 References: Autosal8400B#66289, MS-315#15506, SSW P164, RC#002

Reference Resistance (ohm)	Reference Conductivity (mS/cm)	Voltage Ratio, V	Measured Conductivity (mS/cm)	Calibration Error (m8/cm)	C0:	Coefficients 20.67835E-3
open	0.0000	-0.000107	0.0003	0.0003	C1:	189.95688
694.042	7,4181	0.038943	7.4181	-0.0000	(K) C2:	1.001942
331.926	15.5109	0.081545	15.5107	-0.0002	X0 :	439.17712E-6
150.019	34.3189	0.180559	34.3190	0.0001	x1 :	16.191501 5 -6
100.016	51.4769	0.270882	51.4766	-0.0003	x2 :	0.0
75.023	68.6251	0.361156	68.6247	-0.0004	X3 :	0.0
55.520	92.7329	0.488072	92.7333	0.0004	X4: X5:	0.0 14.877615
Bath	Voltage Ratio	Temperature (iTS-90)	Salinity (PSS-78)	Conductivity (m3/cm)	X6:	10
T15835	0.2251495	14.87761	34.9928	42.7894		
T25835	0.2780405	24.77027	34.9943	52.8236		
		- AMIERSE - E 1	14949 1/m			

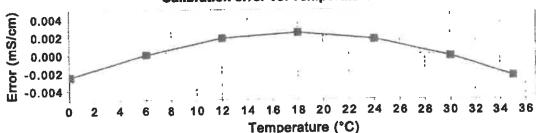
Cell Constant 0T15S35 = 5.14848 1/cm

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

Calibration error vs. Conductivity



Calibration error vs. Temperature



Calibration Date: 2021-08-19 Issue Date: 2021-08-19

File Name: 207975_20210819_1715C.rsk

20/3/0_202/00/0_1/100/10/

Operator: jwang

Approver:

kmalorny

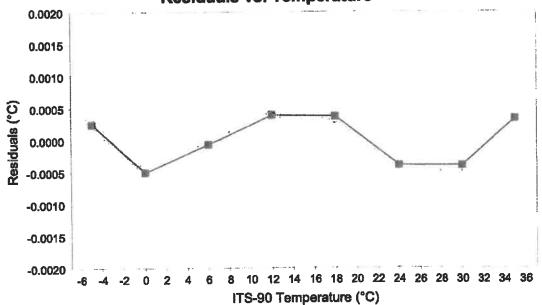


RBR Temperature Calibration Certificate

Logger ID: RBRlegato³ Serial No: 207975 Channel No: 2

Reference Temperature, ITS-90	Voltage ratio, V	Measured Temperature, ITS-90	Calibration error		Coefficients
-4.94847	0.687946	-4.94822	0.00026	C0:	3.5256033R-3 -254.68363E-6
0.05090	0.628595	0.05040	-0.00050	C2:	2.4773692B~6
6.04798	0.554716	6.04791	-0.00006	C3:	-99.149815 E-9
12.04477	0.481116	12.04517	0.00039		
18.03538	0.410960	18.03575	0.00037		
24.03039	0.346478	24.03000	-0.00039		
30.03218	0.289074	30.03178	-0.00040		
35.02841	0.247161	35.02875	0.00034		





Calibration Date: 2021-08-12 2021-08-13 Issue Date: 48282 Calibration ID:

> Operator: dluong

jwang

Pressure Calibration Certificate

BRiegato³ C.T.D, Teledyne Webb Slocum, dry bay (1000dbar) s/n: 207975

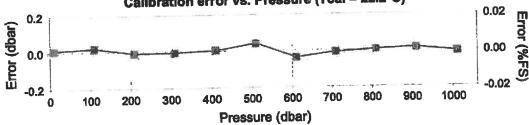
Instrument rating: 1,000 dbar s/n: N009858 Nominal accuracy: 0.05%FS (0.5 dbar)

Reference instrument: Mensor CPC6050 s/n: 41000CAM

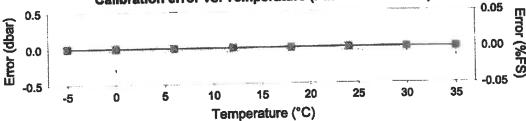
Applied pressure, Papp (dbar)		Measured pressure,	Calibration error (dbar)	Coefficients	Coefficients	
	Voltage ratio, V	ltage Pa		CO: -41.794 C1: 2.34963		
10.118 110.000 209.999 309.997 409.999 509.999 609.998 709.997 810.004	0.022187 0.064648 0.107092 0.149507 0.191891 0.234256 0.276547 0.318868 0.361172	10.1287 110.0215 209.9914 309.9915 410.0032 510.0409 609.9603 709.9883 810.0074	0.0104 0.0215 -0.0076 -0.0055 0.0042 0.0419 -0.0377 -0.0087	C2: 37.66 C3: -31.70 X0: 10.1 X1: 102.5463 X2: 57.50271 X3: -209.4633 X4: -108.3944 X5: 22.18	5196 1183 5E-3 5E-6 2E-9	
$P_c = X_0$	0.403467 0.445750	910.0146 1009.9928 $X_1(T-X_5)-J$ $1+X_4(T-X_5)$	0.0136 -0.0072 $X_2(T-X_5)^2-X_3(T-X_5)^2$ $\overline{T-X_5}$	3 Head (mm) ≃	239	

$$P_m = C_0 + C_1 V + C_2 V^2 + C_3 V^3$$

Calibration error vs. Pressure (Tcal = 22.2°C)







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

207975_20210818_1222P.rsk File Name:

> Operator: dluong

Approver:

kmalorny