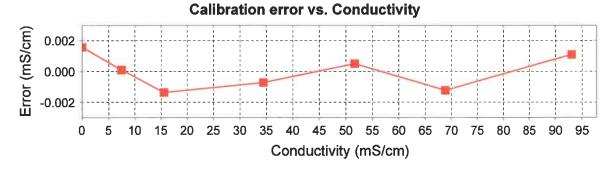
## RBR

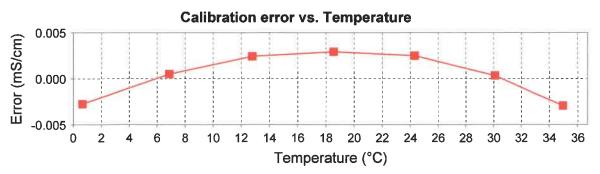
## **Conductivity Calibration Certificate**

RBRIegato<sup>3</sup> C.T.D, Teledyne Webb Slocum, 1000dbar, dry bay s/n: 203790 References: Autosal8400B#66289, MS-315#15506, SSW P162, RC#002

Reference Resistance (ohm)	Reference Conductivity (mS/cm)	Voltage Ratio, V	Measured Conductivity (mS/cm)	Calibration Error (mS/cm)	C0:	Coefficients
open	0.0000	-0.000364	0.0016	0.0016	C1:	189.72449
694.038	7.4482	0.038886	7.4483	0.0001	C2:	1.001942
331.935	15.5733	0.081705	15.5719	-0.0014	ж0:	1.3772601E-3
150.025	34.4564	0.181237	34.4557	-0.0007	<b>X1</b> :	-27.664046E-6
100.021	51.6824	0.272038	51.6829	0.0005	X2:	0.0
75.022	68.9041	0.362801	68.9029	-0.0012	ж3:	0.0
55.521	93.1057	0.490376	93.1068	0.0011	X4:	0.0
					X5:	15.077937
Bath	Voltage Ratio	Temperature (ITS-90)	Salinity (PSS-78)	Conductivity (mS/cm)	X6:	10
T15835	0.2262721	15.07794	35.0052	42.9999		
T25S35	0.2845660	25.94090	35.0035	54.0610		
	Cell Constant	@T15S35 = 5.1	6932 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 Date: 2020-01-13 Issue Date: 2020-01-13

File Name: 203790 20200113\_1700C.rsk

Operator: Shkworets

Approver:

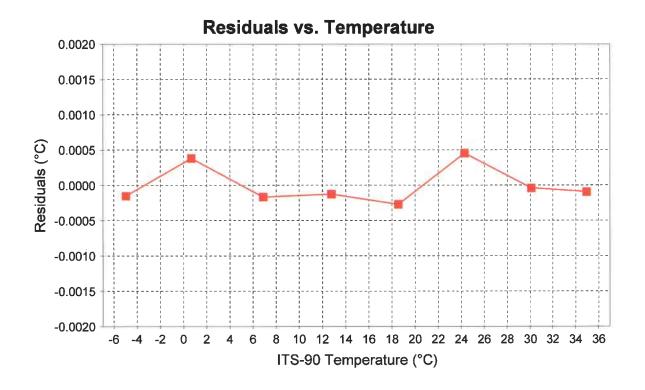
kmalorny



## **Temperature Calibration Certificate**

Logger ID: RBRlegato<sup>3</sup> Serial No: 203790 Channel No: 2

Reference Temperature, ITS-90	Voltage ratio, V	Measured Temperature, ITS-90	Calibration error		Coefficients
-4.97624 0.66411 6.88400 12.78938	0.688229 0.621162 0.544525 0.472434	-4.97639 0.66449 6.88383 12.78925	-0.00015 0.00038 -0.00017 -0.00012	C0: C1: C2: C3:	3.5253693E-3 -255.0673E-6 2.4688713E-6 -68.92941E-9
18.55736 24.30242 30.10015 34.98953	0.405460 0.344133 0.288927 0.247939	18.55709 24.30288 30.10011 34.98943	-0.00027 0.00046 -0.00004 -0.00009		



Calibration Date: 2020-01-06 Issue Date: 2020-01-07 Calibration ID: 37074

Operator:

kmalorny

Approver:

kmalorny



## **Pressure Calibration Certificate**

RBRIegato<sup>3</sup> C.T.D, Teledyne Webb Slocum, 1000dbar, dry bay s/n: 203790

Sensor rating: 1000 dbar s/n: L063794 Nominal accuracy: 0.05%FS (0.5 dbar)

Reference instrument: Mensor CPC6000 s/n: 612676

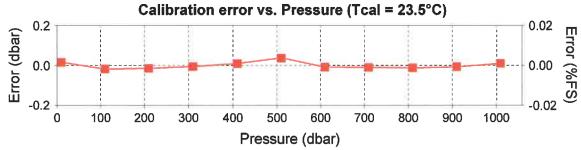
Applied pressure, P <sub>app</sub> (dbar)	Voltage ratio, V	Measured pressure, P₀ (dbar)	Calibration	Coefficients	
			error (dbar)	CO: 105.48149	
			• •	C1: 2.2306443E3	
10.033	-0.042793	10.0490	0.0159	C2: 137.59084	
109.999	0.002120	109.9820	-0.0170	C3: -10.179821	
209.999	0.046817	209.9847	-0.0143		
309.999	0.091275	309.9937	-0.0053	X0: 10.0367	
409.998	0.135501	410.0072	0.0092	X1: -206.69591E-3	
509.999	0.179503	510.0353	0.0363	X2: -550.7705E-6	
				X3: -1.0190257E-6	
609.998	0.223251	609.9898	-0.0082	X4: -86.82161E-6	
709.998	0.266800	709.9886	-0.0094		
809.998	0.310136	809.9863	-0.0117	X5: 23.5	
909.999	0.353269	909.9930	-0.0060		
1010.020	0.396213	1010.0305	0.0105		

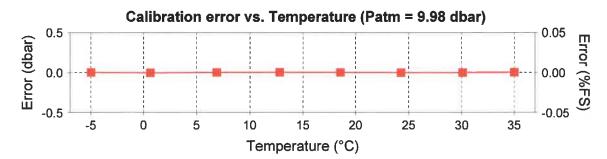
$$P_c = X_0 + \frac{P_m - X_0 - X_1(T - X_5) - X_2(T - X_5)^2 - X_3(T - X_5)^3}{1 + X_4(T - X_5)}$$

$$P_m = C_0 + C_1V + C_2V^2 + C_3V^3$$

Head (mm) = 228

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





Calibration Date: 2020-01-07 Issue Date: 2020-01-07

203790 20200107 1437P.rsk File Name:

Operator:

kmalorny

Approver:

kmalorny