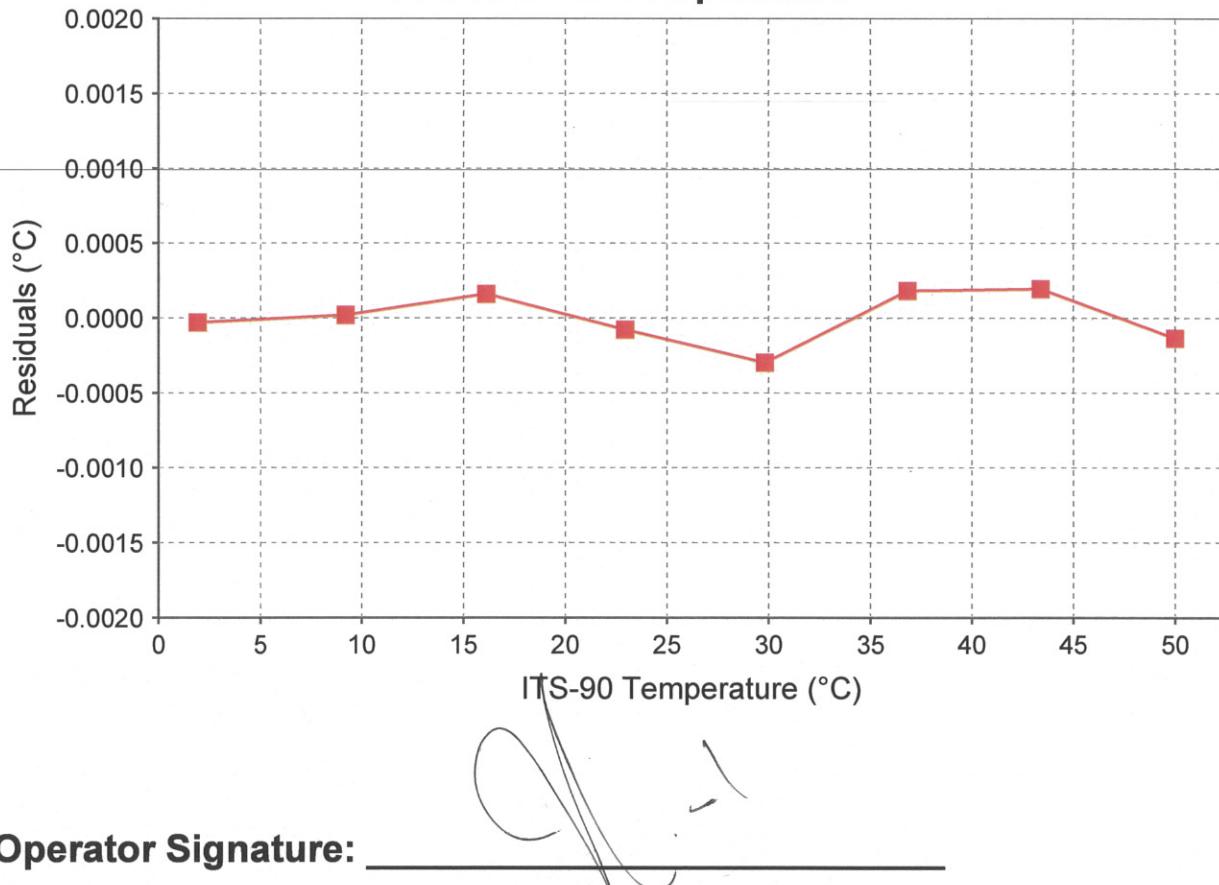


RBR Temperature Calibration Certificate

Logger ID: XR-420 Serial No: 021968 Channel No: 1

ITS-90 Temp	Voltage Ratio	Residuals	Coefficients
1.95471	0.644988	-0.00003	0.003484345920839
9.21404	0.556628	0.00002	-0.000250795343891
16.13399	0.472548	0.00016	0.000002466255413
22.96510	0.394232	-0.00008	-0.000000046842714
29.84572	0.323262	-0.00030	
36.83440	0.261019	0.00018	
43.40833	0.211832	0.00019	
50.00864	0.171026	-0.00014	

Residuals vs. Temperature



Operator Signature:

Operator Name:

MLuong

Calibration Date: 6/Nov/2012

Print Date:

Calibration ID: 2058

RBR

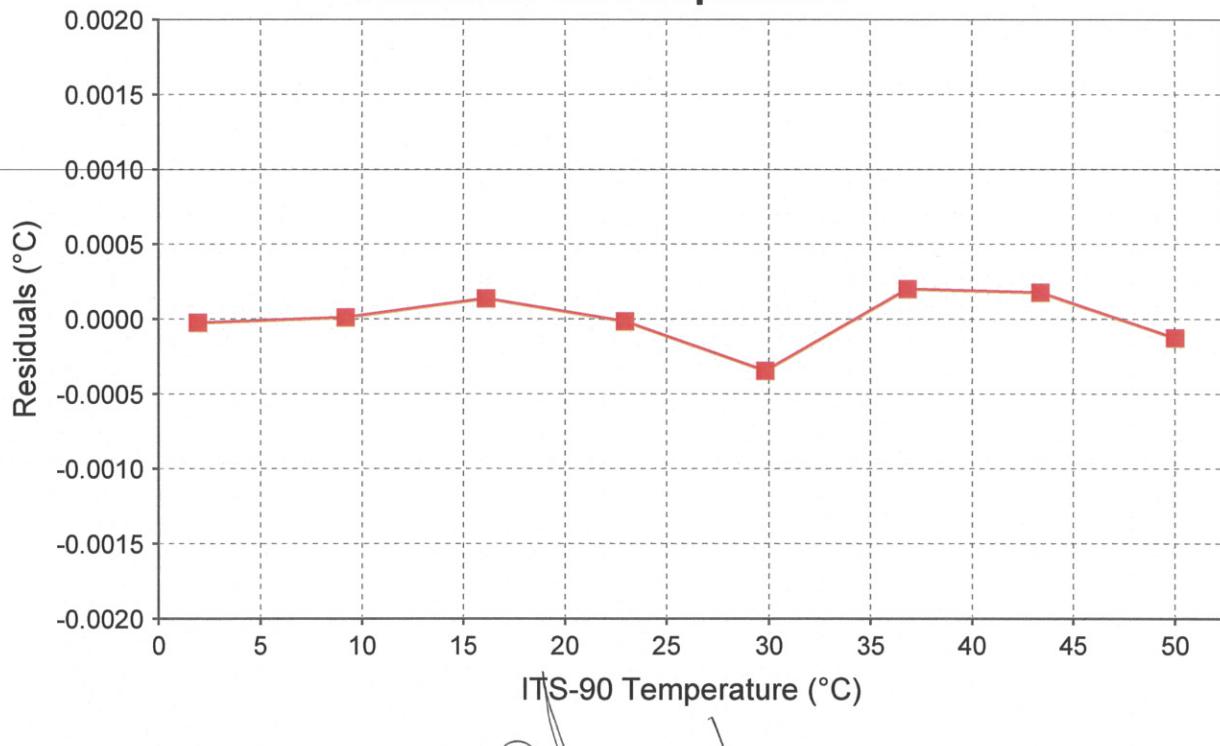
Temperature Calibration Certificate

Logger ID: XR-420 Serial No: 021968 Channel No: 2

ITS-90 Temp	Voltage Ratio	Residuals	Coefficients
-------------	---------------	-----------	--------------

1.95471	0.626554	-0.00003	0.003504319278432
9.21404	0.536908	0.00001	-0.000251204828830
16.13399	0.452771	0.00014	0.000002479447498
22.96509	0.375404	-0.00002	-0.000000060709783
29.84572	0.306120	-0.00035	
36.83440	0.245990	0.00020	
43.40840	0.198887	0.00018	
50.00864	0.160084	-0.00013	

Residuals vs. Temperature



Operator Signature:

Operator Name:

MLuong

Calibration Date: 6/Nov/2012

Print Date:

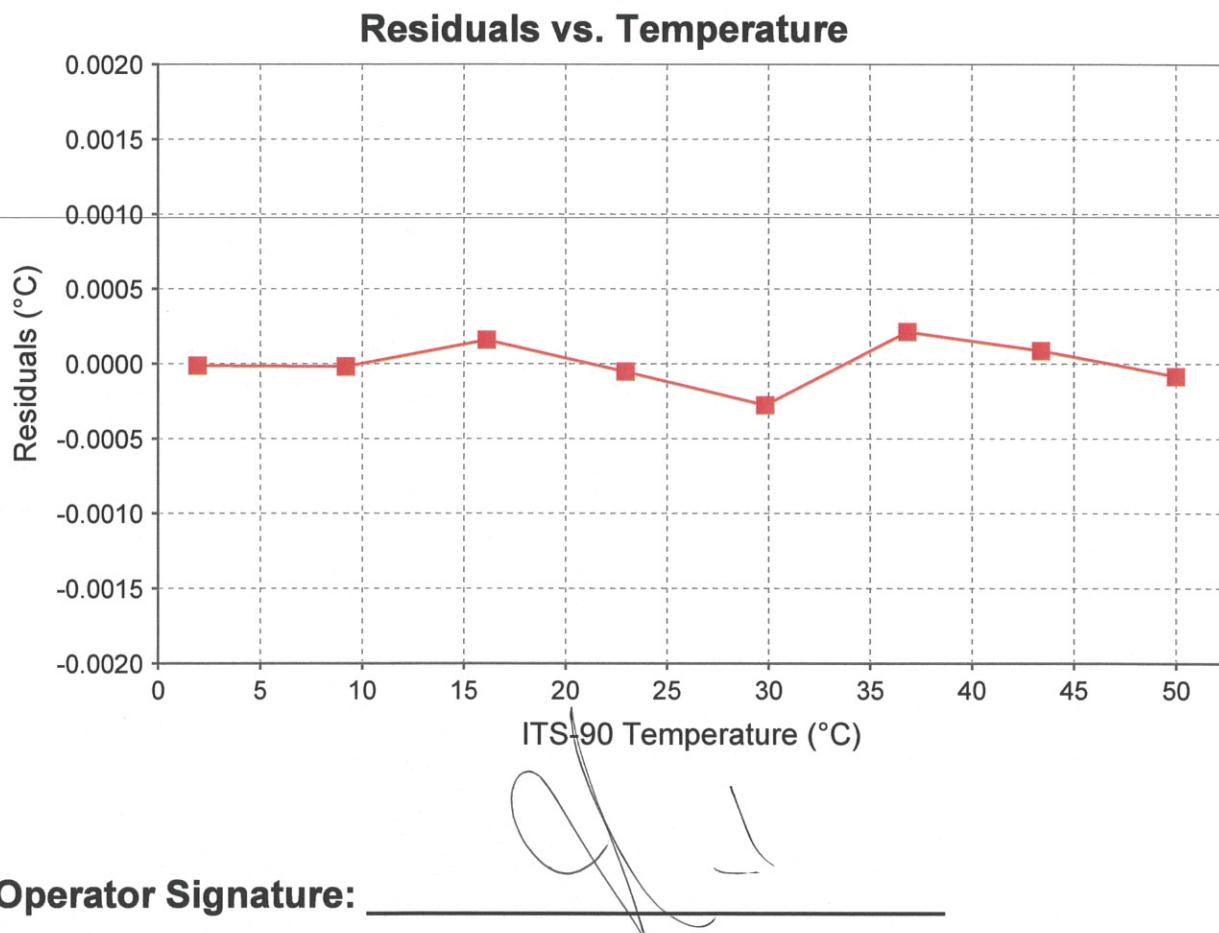
Calibration ID: 2059

RBR

Temperature Calibration Certificate

Logger ID: XR-420 Serial No: 021968 Channel No: 3

ITS-90 Temp	Voltage Ratio	Residuals	Coefficients
1.95471	0.673921	-0.00001	0.003452453677799
9.21404	0.587971	-0.00002	-0.000249630218352
16.13399	0.504361	0.00016	0.000002423119255
22.96509	0.424853	-0.00005	-0.000000064489093
29.84572	0.351425	-0.00028	
36.83440	0.285932	0.00021	
43.40841	0.233448	0.00009	
50.00864	0.189412	-0.00008	



Calibration Date: 6/Nov/2012

Print Date:

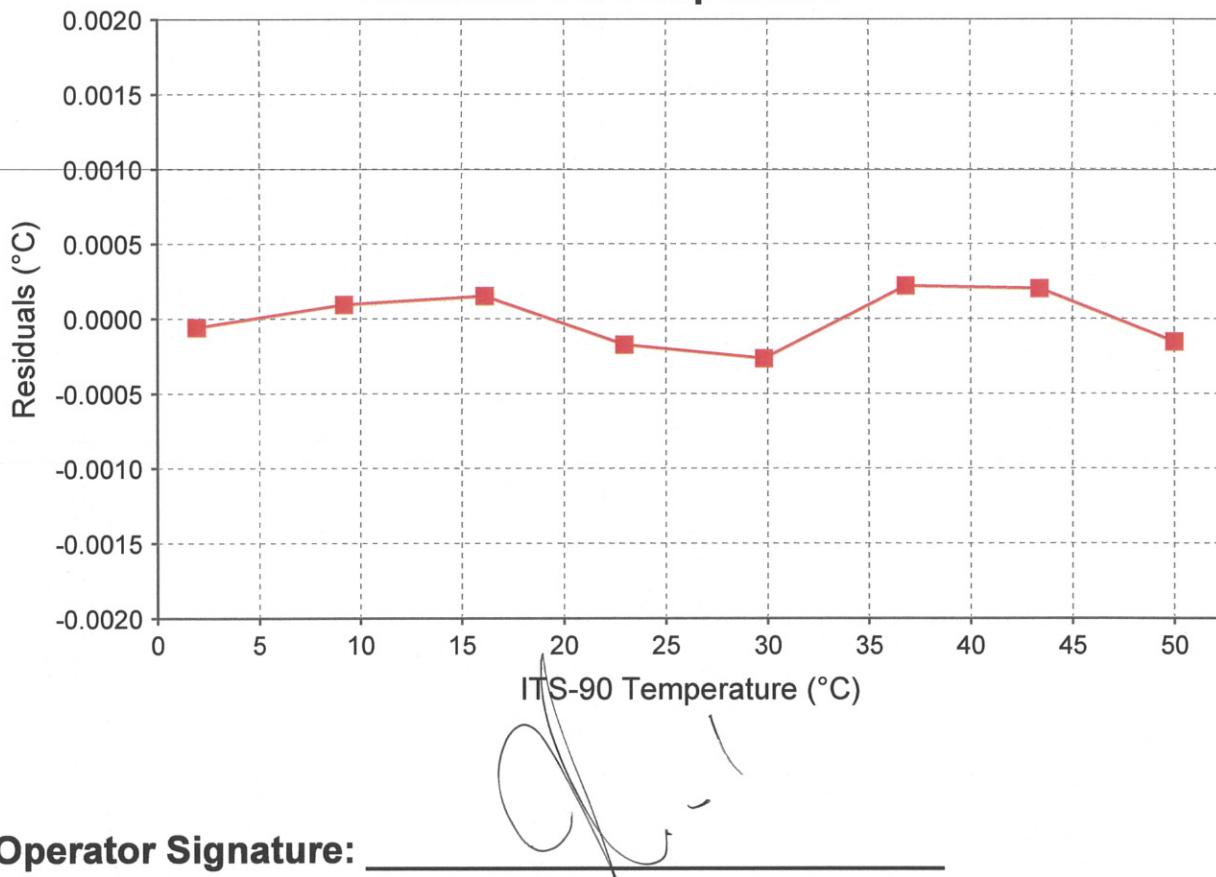
Calibration ID: 2060

RBR Temperature Calibration Certificate

Logger ID: XR-420 Serial No: 021968 Channel No: 4

ITS-90 Temp	Voltage Ratio	Residuals	Coefficients
1.95471	0.606843	-0.00006	0.003525606823305
9.21404	0.515849	0.00009	-0.000250866602804
16.13399	0.431681	0.00015	0.000002528380112
22.96509	0.355345	-0.00017	-0.000000065984565
29.84572	0.287845	-0.00027	
36.83440	0.229935	0.00022	
43.40840	0.185009	0.00020	
50.00864	0.148295	-0.00016	

Residuals vs. Temperature



Operator Signature: _____

Operator Name: M Luong

Calibration Date: 6/Nov/2012

Print Date:

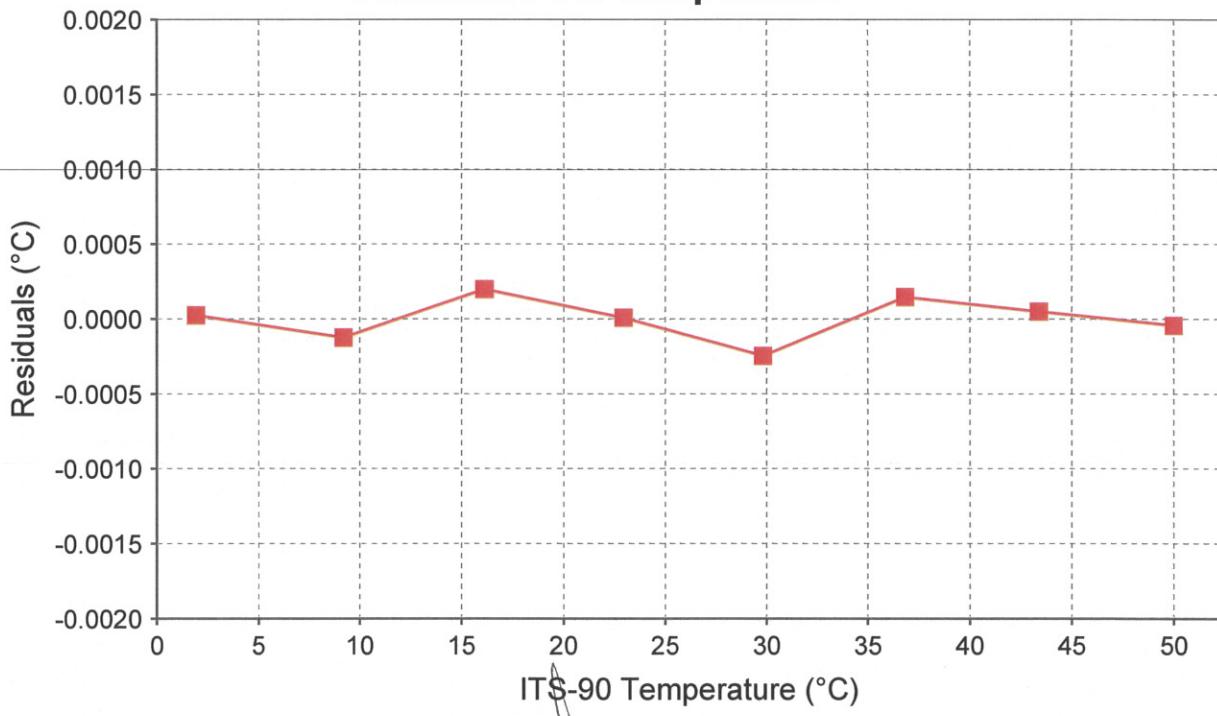
Calibration ID: 2061

RBR Temperature Calibration Certificate

Logger ID: XR-420 Serial No: 021968 Channel No: 5

ITS-90 Temp	Voltage Ratio	Residuals	Coefficients
1.95471	0.637903	0.00002	0.003492389111846
9.21404	0.548813	-0.00013	-0.000250387621319
16.13399	0.464485	0.00020	0.000002464691194
22.96509	0.386354	0.00001	-0.000000065290782
29.84572	0.315916	-0.00025	
36.83440	0.254436	0.00014	
43.40841	0.206056	0.00005	
50.00864	0.166060	-0.00004	

Residuals vs. Temperature



Operator Signature:

Operator Name: MLuong

Calibration Date: 6/Nov/2012

Print Date:

Calibration ID: 2062

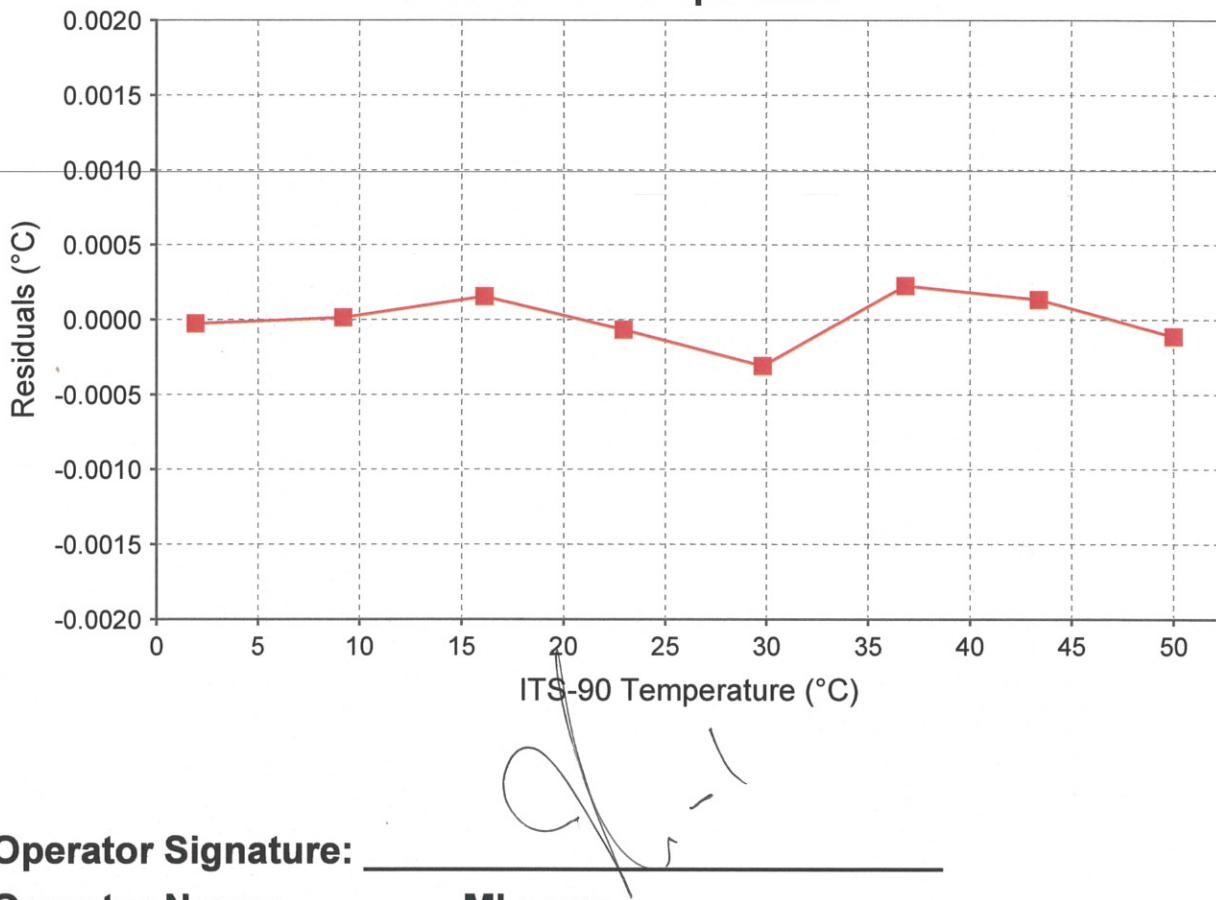
RBR

Temperature Calibration Certificate

Logger ID: XR-420 Serial No: 021968 Channel No: 6

ITS-90 Temp	Voltage Ratio	Residuals	Coefficients
1.95471	0.657537	-0.00003	0.003470696361296
9.21404	0.570104	0.00001	-0.000250240094110
16.13399	0.486122	0.00015	0.000002422292834
22.96509	0.407208	-0.00007	-0.000000044500379
29.84572	0.335125	-0.00031	
36.83440	0.271457	0.00022	
43.40840	0.220849	0.00013	
50.00864	0.178667	-0.00011	

Residuals vs. Temperature



Operator Signature:

Operator Name:

MLuong

Calibration Date: 6/Nov/2012

Print Date:

Calibration ID: 2063

RBR

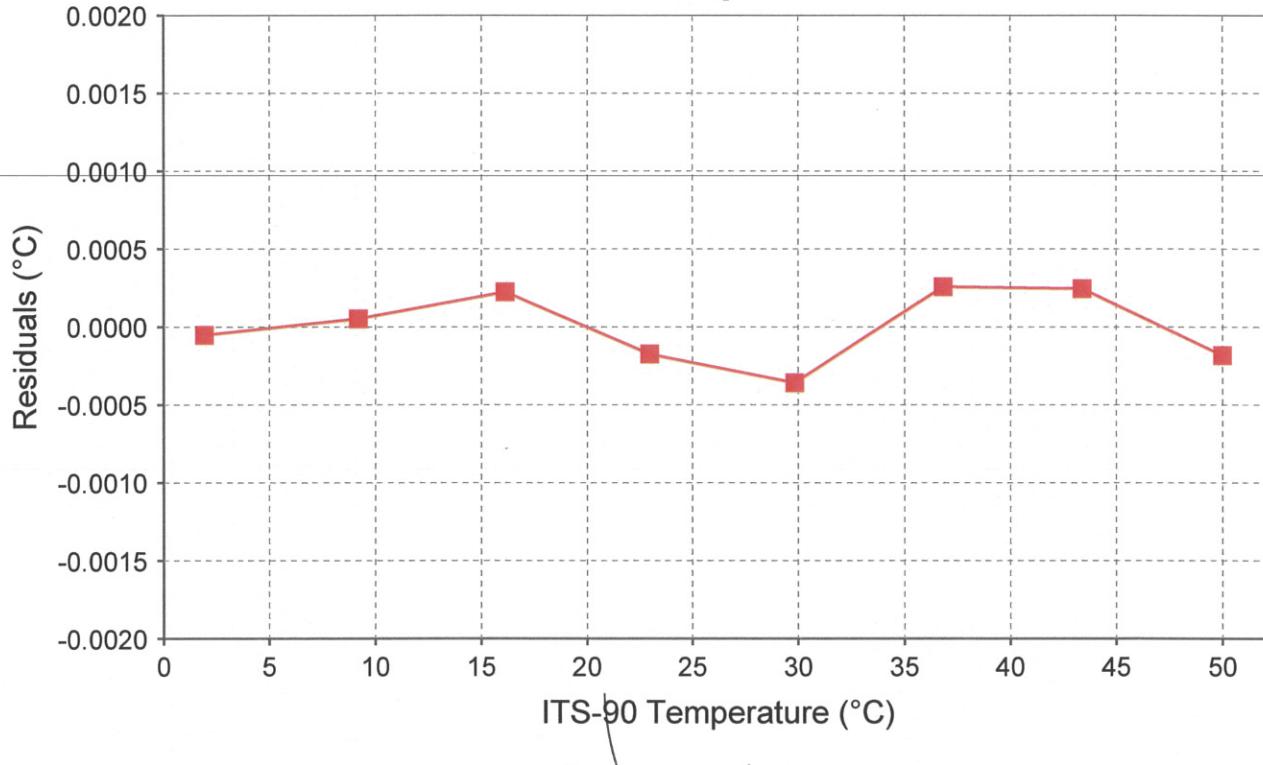
Temperature Calibration Certificate

Logger ID: XR-420 Serial No: 021968 Channel No: 7

ITS-90 Temp	Voltage Ratio	Residuals	Coefficients
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1.95471	0.622167	-0.00005	0.003508905301658
9.21404	0.532338	0.00005	-0.000251515584649
16.13399	0.448295	0.00022	0.000002511125063
22.96509	0.371235	-0.00018	-0.000000043807711
29.84572	0.302389	-0.00036	
36.83440	0.242761	0.00026	
43.40841	0.196127	0.00024	
50.00864	0.157759	-0.00018	

Residuals vs. Temperature



Operator Signature: _____
Operator Name: M Luong

Calibration Date: 6/Nov/2012

Print Date:

Calibration ID: 2064

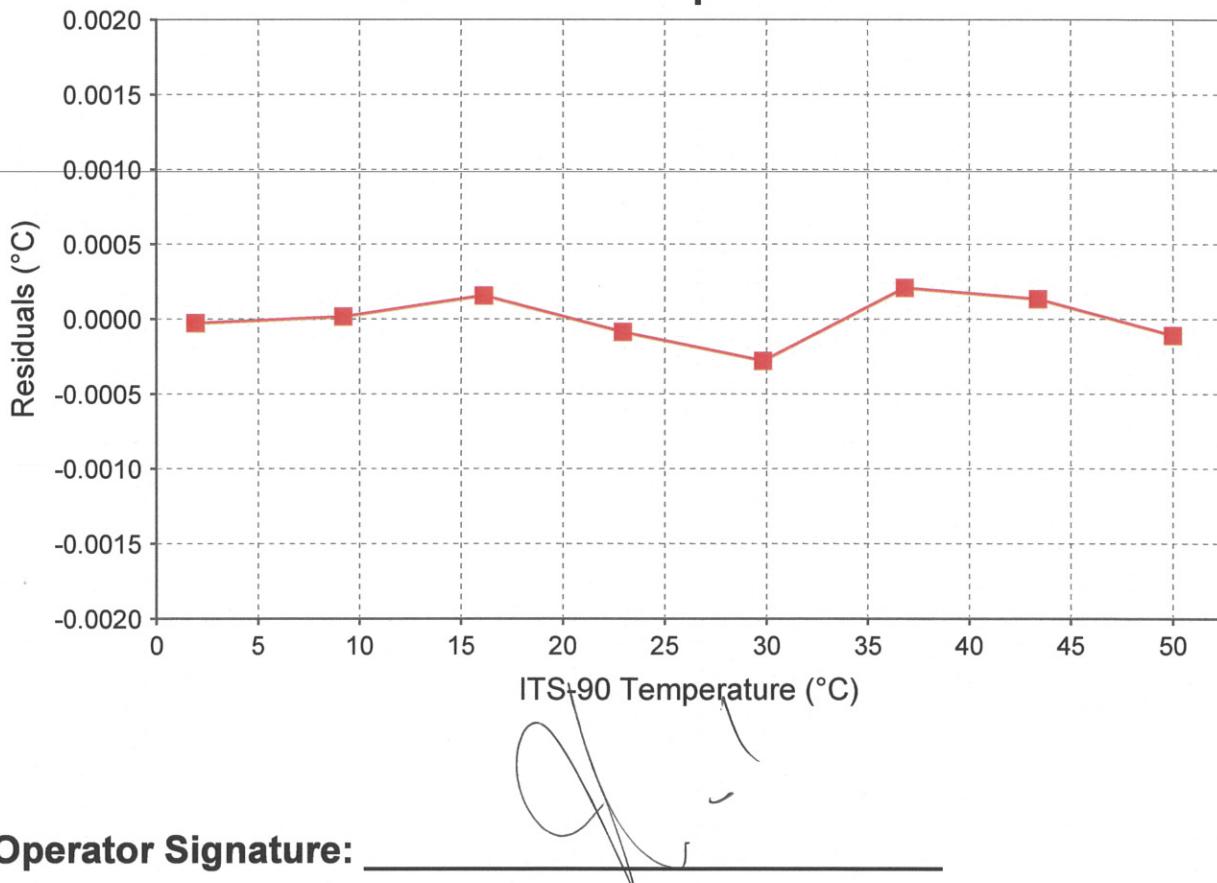
RBR

Temperature Calibration Certificate

Logger ID: XR-420 Serial No: 021968 Channel No: 8

ITS-90 Temp	Voltage Ratio	Residuals	Coefficients
1.95471	0.625030	-0.00003	0.003506145098883
9.21404	0.535152	0.00001	-0.000250869607382
16.13399	0.450899	0.00015	0.000002467322372
22.96509	0.373526	-0.00009	-0.000000063425541
29.84572	0.304325	-0.00028	
36.83441	0.244345	0.00021	
43.40841	0.197416	0.00013	
50.00864	0.158796	-0.00011	

Residuals vs. Temperature



Operator Signature:

Operator Name: M Luong

Calibration Date: 6/Nov/2012

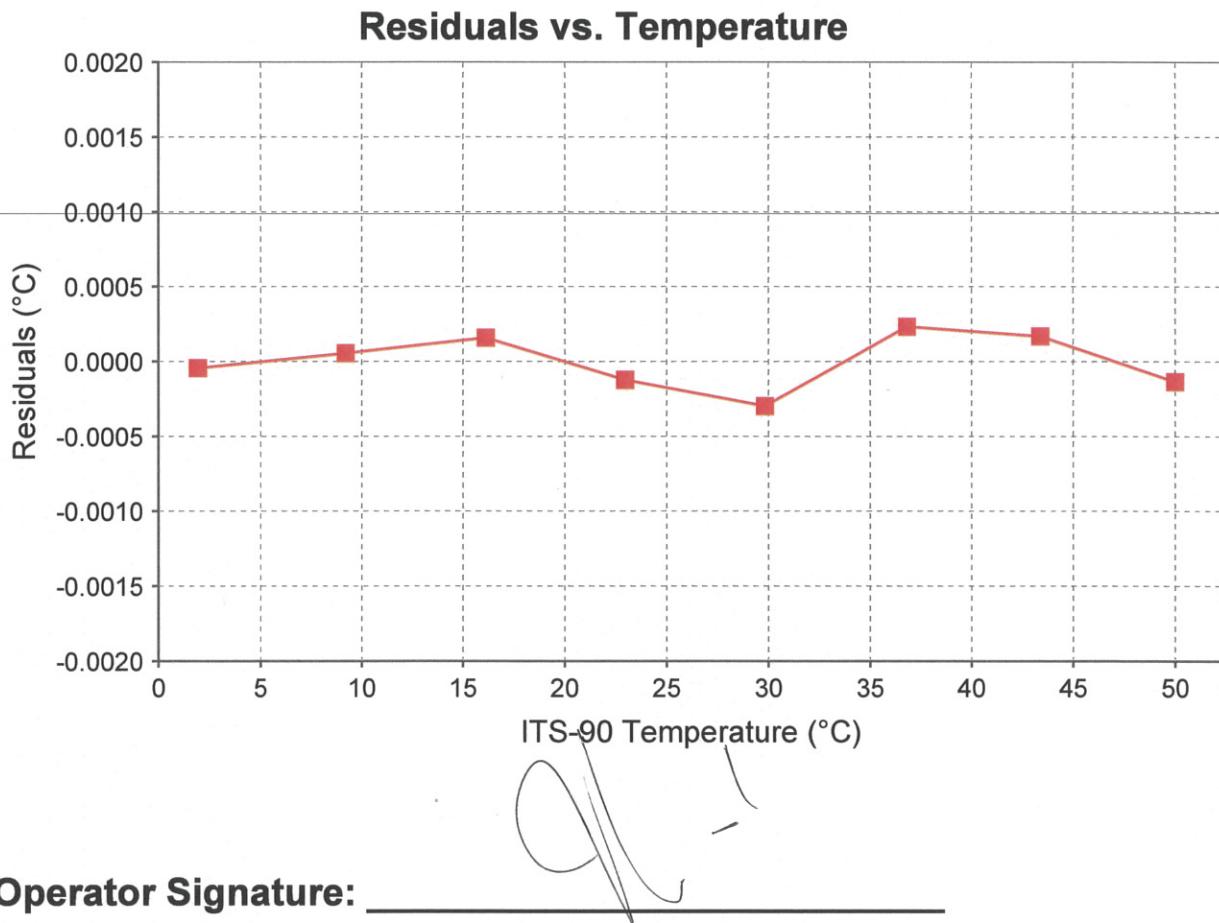
Print Date:

Calibration ID: 2065

RBR Temperature Calibration Certificate

Logger ID: XR-420 Serial No: 021968 Channel No: 9

ITS-90 Temp	Voltage Ratio	Residuals	Coefficients
1.95471	0.659437	-0.00004	0.003468751610011
9.21404	0.572085	0.00005	-0.000249917885669
16.13399	0.488050	0.00016	0.000002446246082
22.96509	0.408982	-0.00013	-0.000000061652174
29.84572	0.336678	-0.00030	
36.83440	0.272765	0.00023	
43.40840	0.221933	0.00017	
50.00864	0.179549	-0.00014	



Operator Signature:

Operator Name: M Luong

Calibration Date: 6/Nov/2012

Print Date:

Calibration ID: 2066

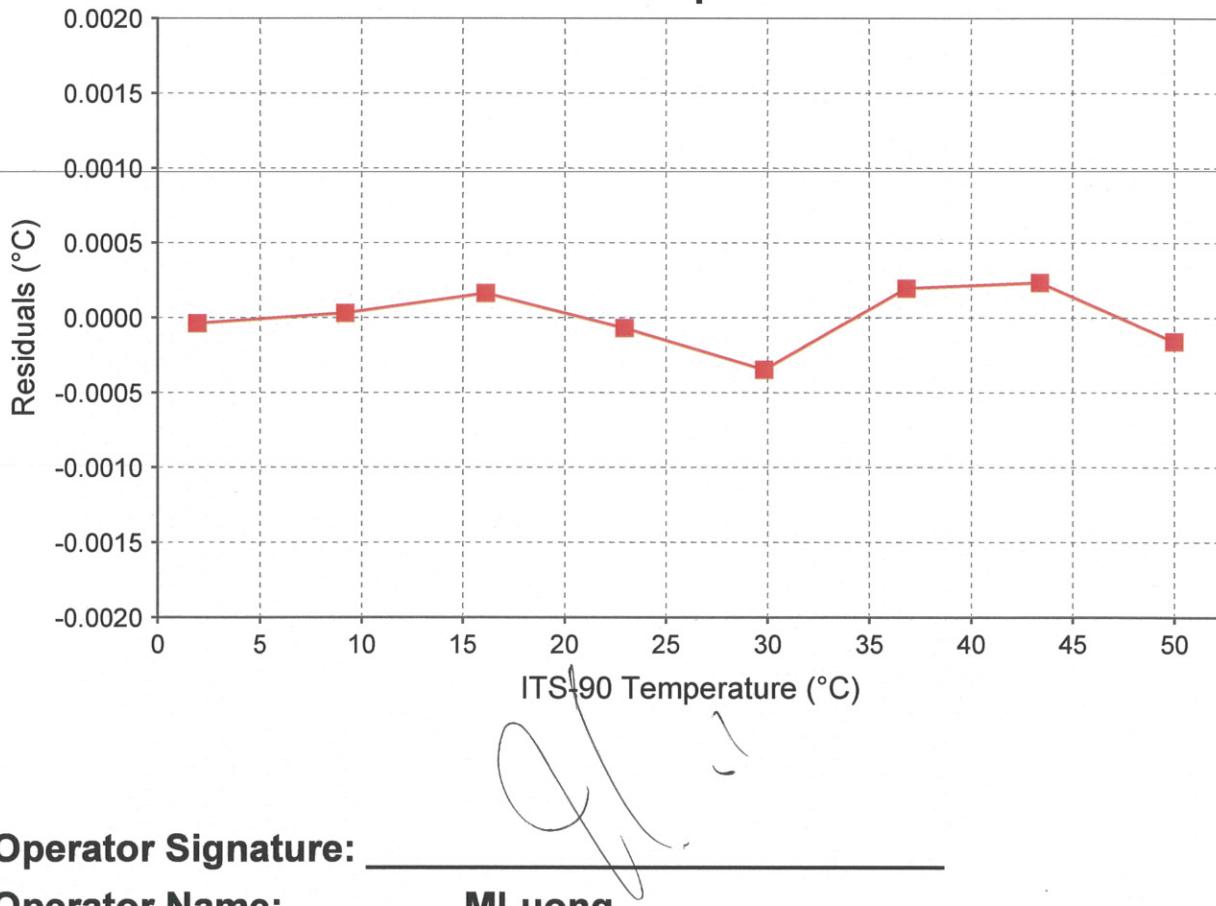
RBR

Temperature Calibration Certificate

Logger ID: XR-420 Serial No: 021968 Channel No: 10

ITS-90 Temp	Voltage Ratio	Residuals	Coefficients
1.95471	0.644156	-0.00004	0.003485137829698
9.21404	0.555803	0.00003	-0.000251026521665
16.13399	0.471786	0.00016	0.000002436912810
22.96510	0.393574	-0.00007	-0.000000062004396
29.84572	0.322733	-0.00035	
36.83440	0.260626	0.00020	
43.40840	0.211557	0.00023	
50.00864	0.170855	-0.00016	

Residuals vs. Temperature



Operator Signature:

Operator Name: M Luong

Calibration Date: 6/Nov/2012

Print Date:

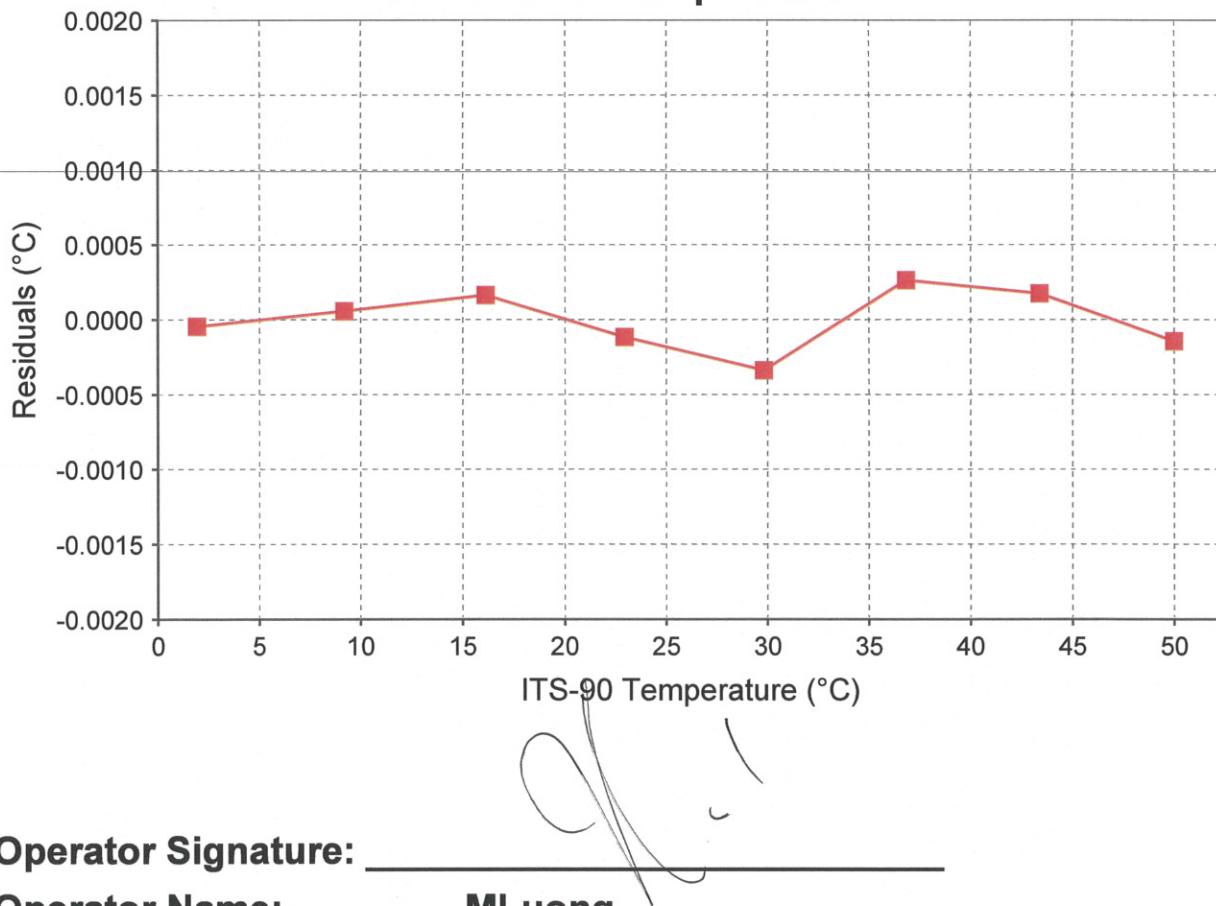
Calibration ID: 2067

RBR Temperature Calibration Certificate

Logger ID: XR-420 Serial No: 021968 Channel No: 11

ITS-90 Temp	Voltage Ratio	Residuals	Coefficients
1.95471	0.653861	-0.00005	0.003475065087403
9.21404	0.565947	0.00006	-0.000249823064087
16.13399	0.481726	0.00016	0.000002473649694
22.96509	0.402804	-0.00012	-0.000000050852051
29.84572	0.330910	-0.00034	
36.83440	0.267580	0.00026	
43.40840	0.217365	0.00017	
50.00864	0.175601	-0.00015	

Residuals vs. Temperature



Operator Signature: _____
Operator Name: M Luong

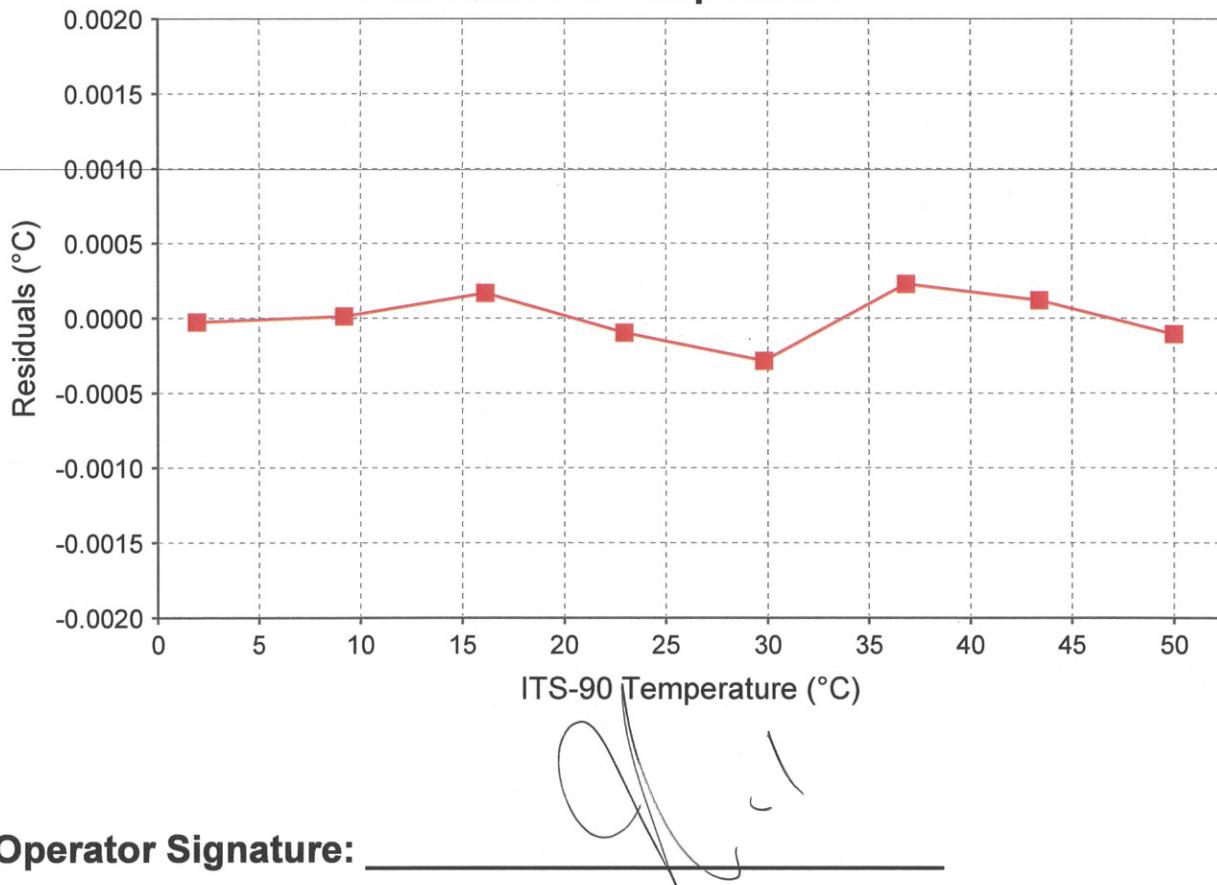
Calibration Date: 6/Nov/2012
Print Date:
Calibration ID: 2068

RBR Temperature Calibration Certificate

Logger ID: XR-420 Serial No: 021968 Channel No: 12

ITS-90 Temp	Voltage Ratio	Residuals	Coefficients
1.95471	0.665187	-0.00003	0.003462218658219
9.21404	0.578422	0.00001	-0.000249968110401
16.13399	0.494588	0.00017	0.000002416070297
22.96509	0.415379	-0.00010	-0.000000064373983
29.84572	0.342659	-0.00029	
36.83441	0.278142	0.00023	
43.40841	0.226669	0.00012	
50.00864	0.183638	-0.00011	

Residuals vs. Temperature



Operator Signature:

Operator Name: MLuong

Calibration Date: 6/Nov/2012

Print Date:

Calibration ID: 2069

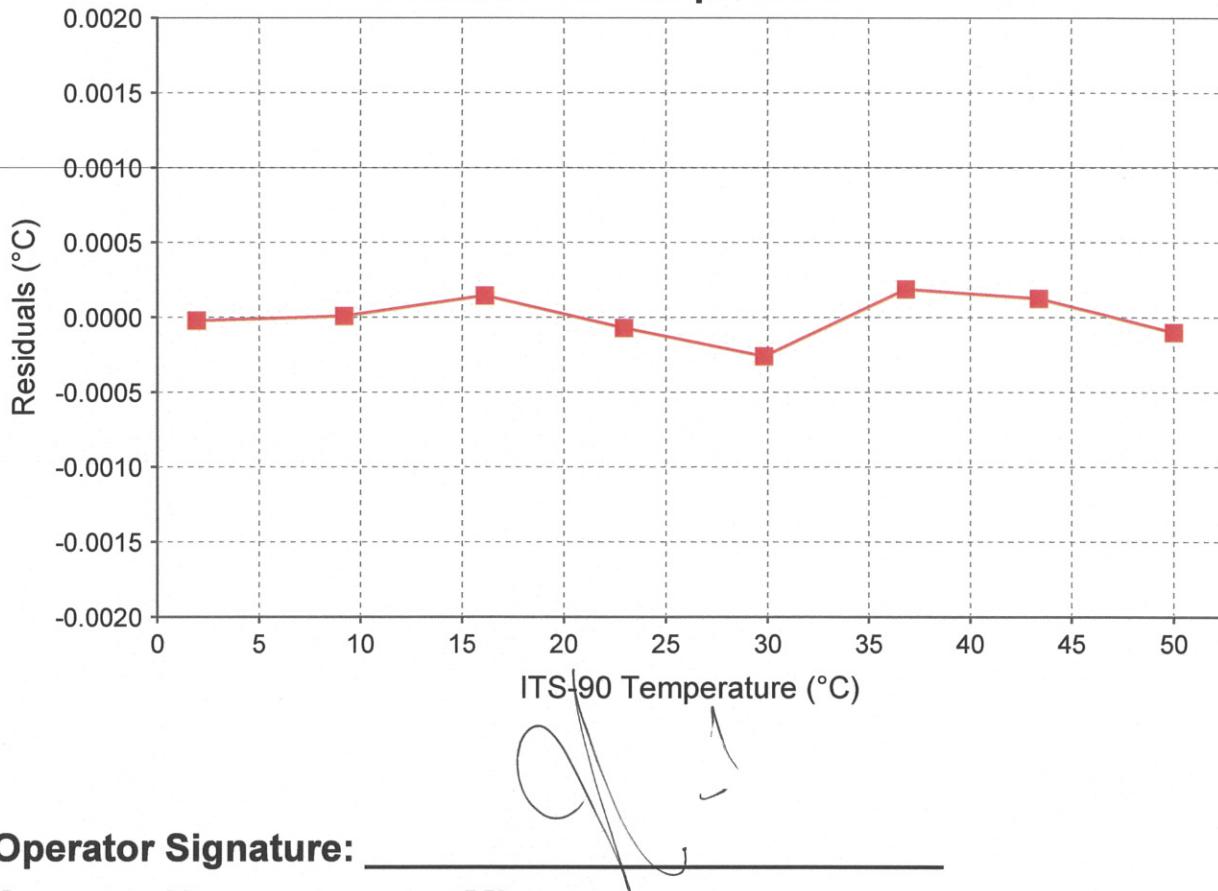
RBR

Temperature Calibration Certificate

Logger ID: XR-420 Serial No: 021968 Channel No: 13

ITS-90 Temp	Voltage Ratio	Residuals	Coefficients
1.95471	0.658927	-0.00002	0.003468813968009
9.21404	0.571800	0.00001	-0.000250736831211
16.13399	0.488027	0.00014	0.000002385803902
22.96509	0.409222	-0.00007	-0.000000058040660
29.84572	0.337147	-0.00026	
36.83441	0.273406	0.00019	
43.40841	0.222676	0.00012	
50.00864	0.180341	-0.00010	

Residuals vs. Temperature



Operator Signature:

Operator Name: MLuong

Calibration Date: 6/Nov/2012

Print Date:

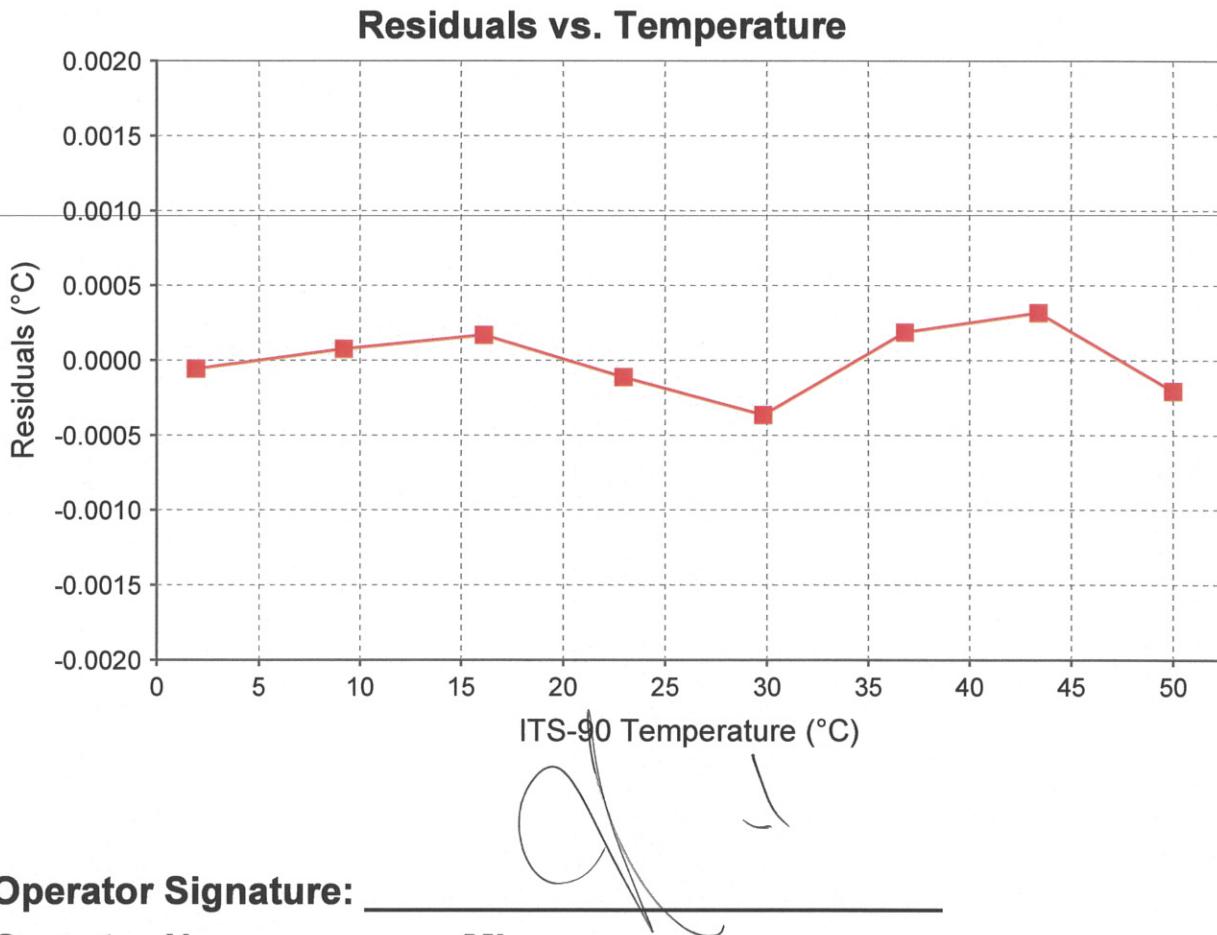
Calibration ID: 2070

RBR

Temperature Calibration Certificate

Logger ID: XR-420 Serial No: 021968 Channel No: 14

ITS-90 Temp	Voltage Ratio	Residuals	Coefficients
1.95471	0.620290	-0.00006	0.003511170158570
9.21404	0.530159	0.00007	-0.000251024826041
16.13399	0.445955	0.00017	0.000002516594278
22.96509	0.368867	-0.00011	-0.000000054587710
29.84572	0.300110	-0.00037	
36.83441	0.240660	0.00019	
43.40841	0.194237	0.00032	
50.00864	0.156098	-0.00021	



Calibration Date: 6/Nov/2012
Print Date:
Calibration ID: 2071

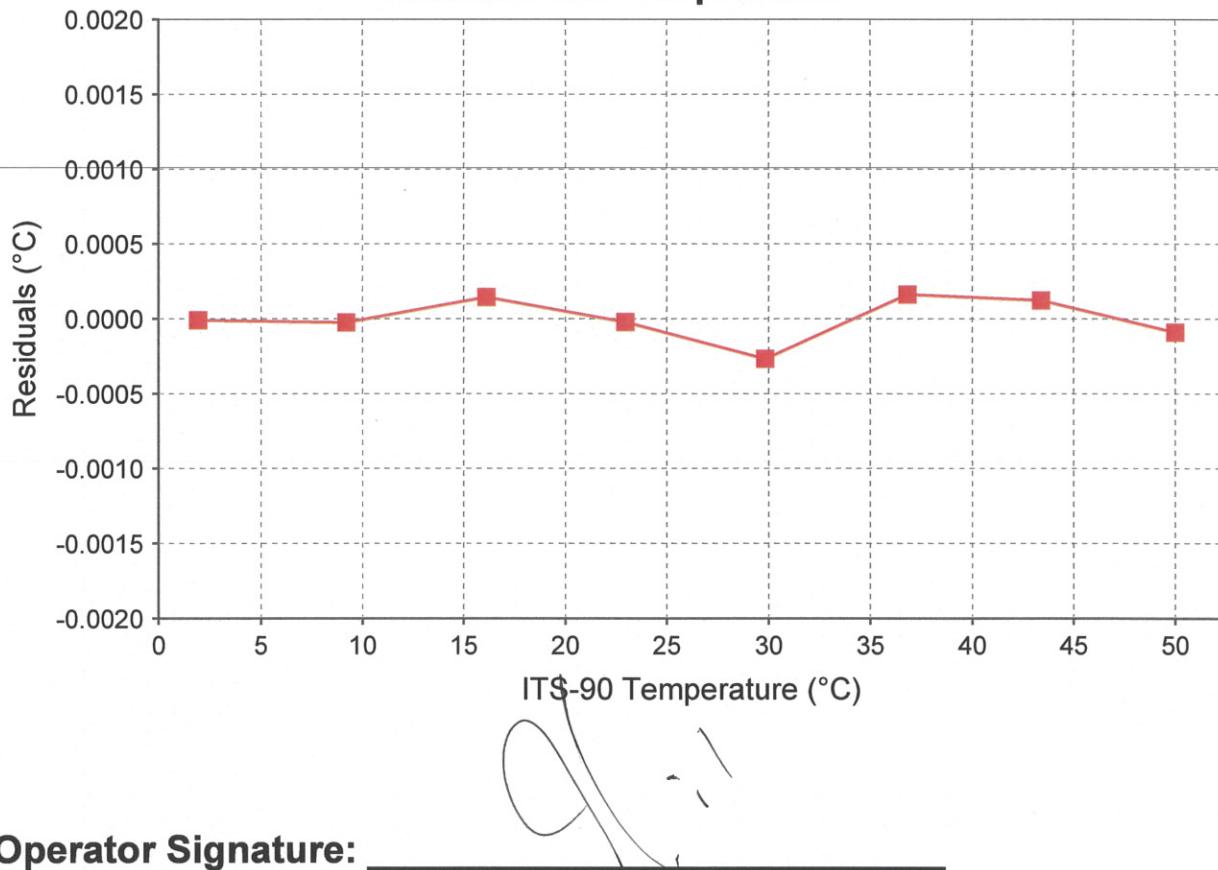
RBR

Temperature Calibration Certificate

Logger ID: XR-420 Serial No: 021968 Channel No: 15

ITS-90 Temp	Voltage Ratio	Residuals	Coefficients
1.95471	0.675297	-0.00001	0.003451088416690
9.21404	0.589396	-0.00003	-0.000249303524732
16.13399	0.505735	0.00014	0.000002462899057
22.96509	0.426098	-0.00002	-0.000000053015203
29.84572	0.352487	-0.00027	
36.83440	0.286787	0.00016	
43.40840	0.234110	0.00012	
50.00864	0.189901	-0.00009	

Residuals vs. Temperature



Operator Signature:

Operator Name: MLuong

Calibration Date: 6/Nov/2012

Print Date:

Calibration ID: 2072

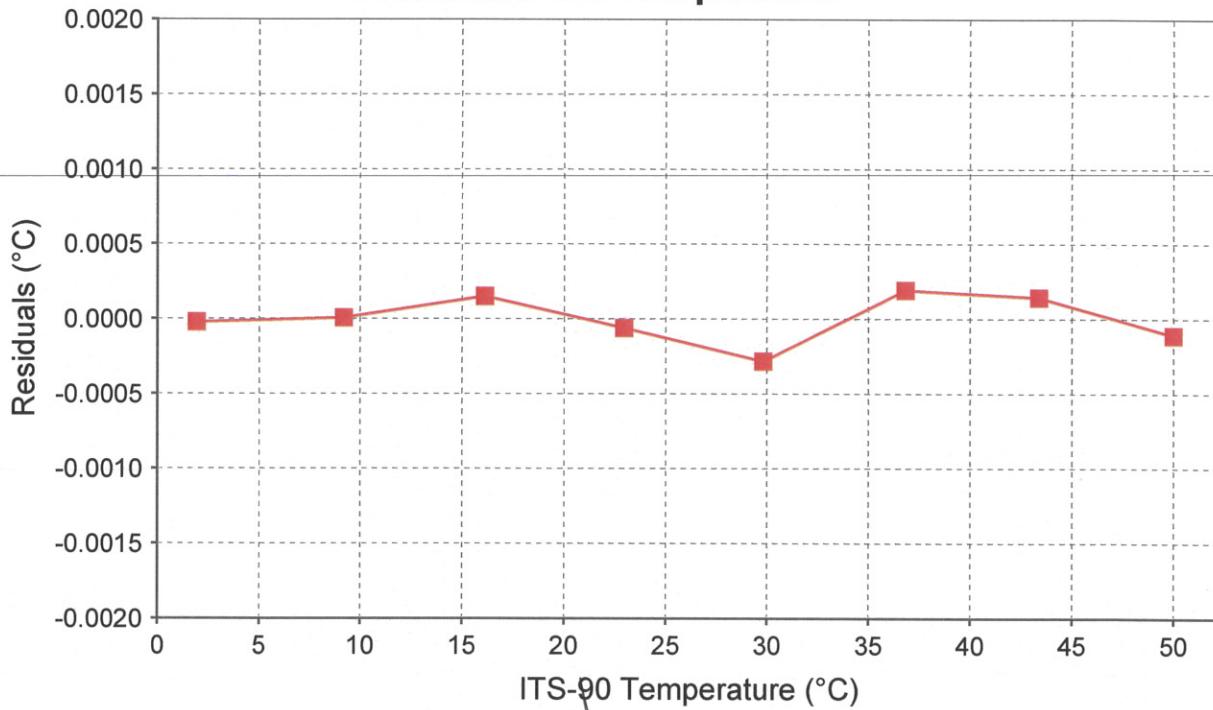
RBR

Temperature Calibration Certificate

Logger ID: XR-420 Serial No: 021968 Channel No: 16

ITS-90 Temp	Voltage Ratio	Residuals	Coefficients
1.95471	0.661673	-0.00002	0.003465928288946
9.21404	0.574706	0.00000	-0.000250344084237
16.13399	0.490891	0.00015	0.000002483842576
22.96509	0.411877	-0.00006	-0.000000043468667
29.84572	0.339476	-0.00029	
36.83440	0.275347	0.00019	
43.40840	0.224248	0.00014	
50.00864	0.181570	-0.00011	

Residuals vs. Temperature



Operator Signature:

Operator Name: MLuong

Calibration Date: 6/Nov/2012

Print Date:

Calibration ID: 2073

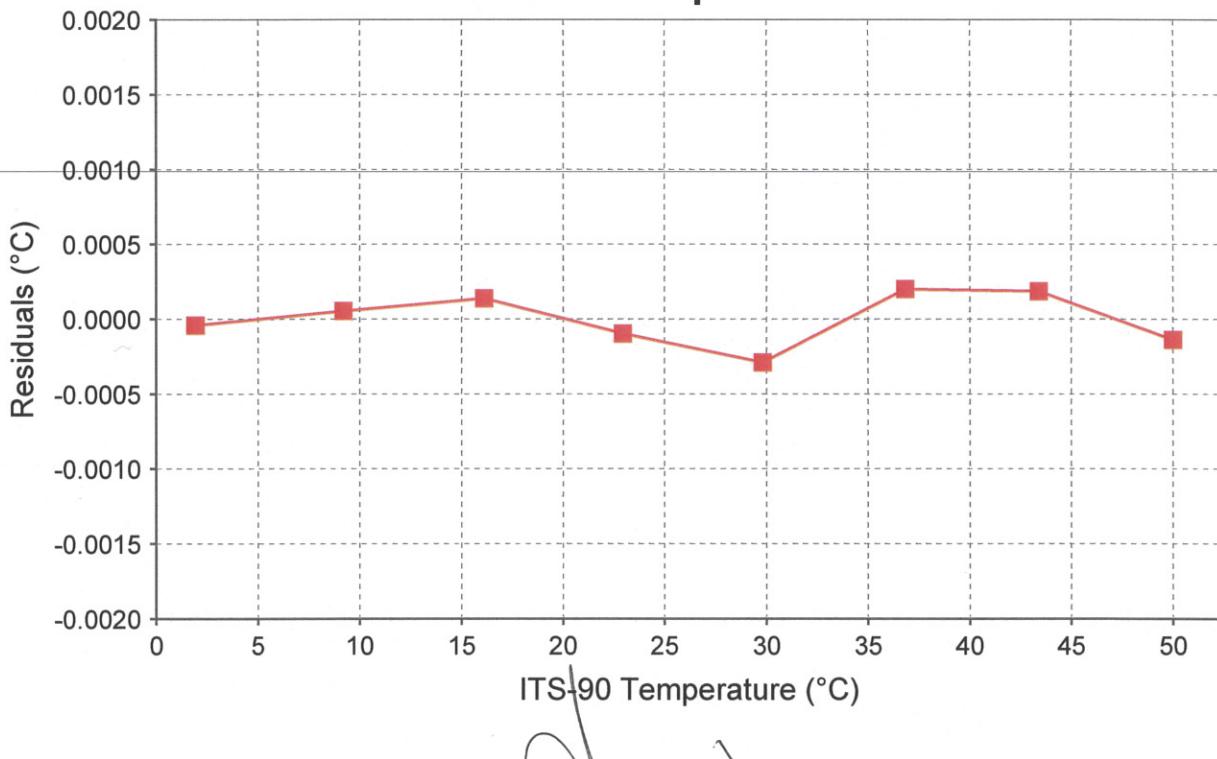
RBR

Temperature Calibration Certificate

Logger ID: XR-420 Serial No: 021968 Channel No: 17

ITS-90 Temp	Voltage Ratio	Residuals	Coefficients
1.95471	0.605237	-0.00004	0.003527161837604
9.21404	0.514283	0.00005	-0.000251223111897
16.13399	0.430252	0.00014	0.000002506840950
22.96509	0.354113	-0.00010	-0.000000060773241
29.84572	0.286835	-0.00029	
36.83440	0.229141	0.00020	
43.40840	0.184395	0.00018	
50.00864	0.147831	-0.00014	

Residuals vs. Temperature



Operator Signature:

Operator Name: M Luong

Calibration Date: 6/Nov/2012

Print Date:

Calibration ID: 2074

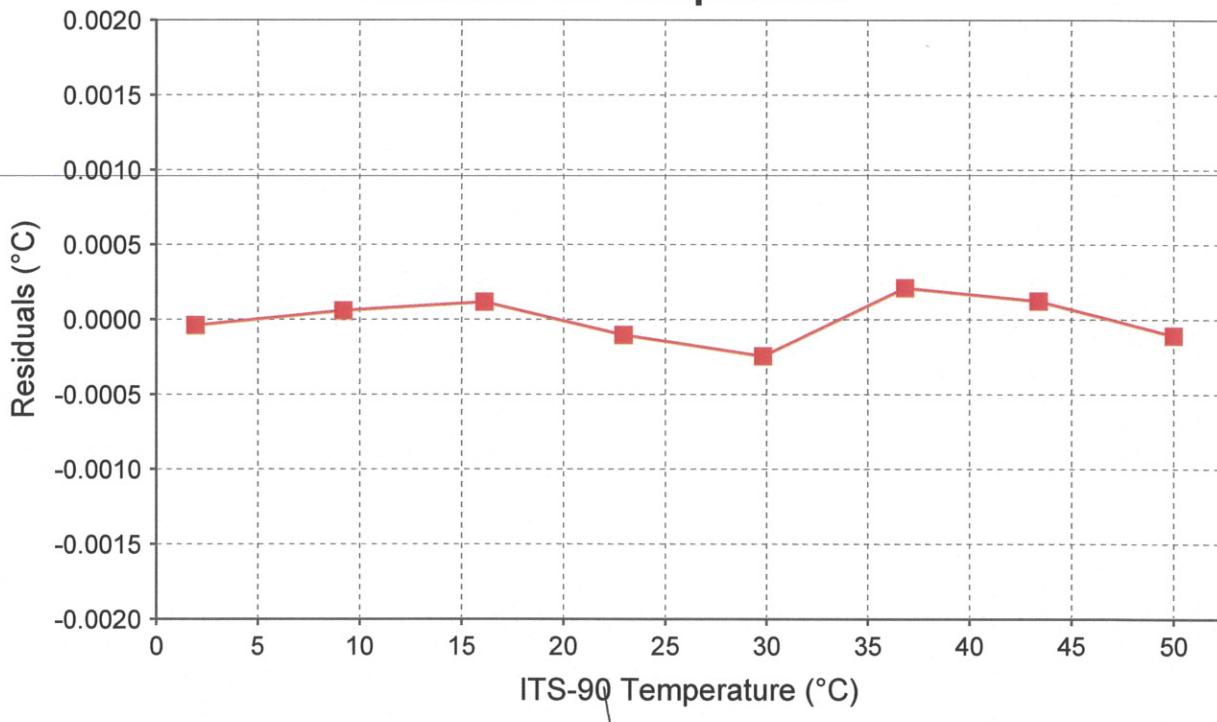
RBR

Temperature Calibration Certificate

Logger ID: XR-420 Serial No: 021968 Channel No: 18

ITS-90 Temp	Voltage Ratio	Residuals	Coefficients
1.95471	0.595061	-0.00004	0.003537780795069
9.21404	0.503722	0.00006	-0.000251533918262
16.13399	0.419958	0.00011	0.000002521933744
22.96509	0.344566	-0.00011	-0.000000067816529
29.84572	0.278346	-0.00025	
36.83440	0.221852	0.00021	
43.40841	0.178221	0.00012	
50.00864	0.142685	-0.00011	

Residuals vs. Temperature



Operator Signature: _____

Operator Name: M Luong

Calibration Date: 6/Nov/2012

Print Date:

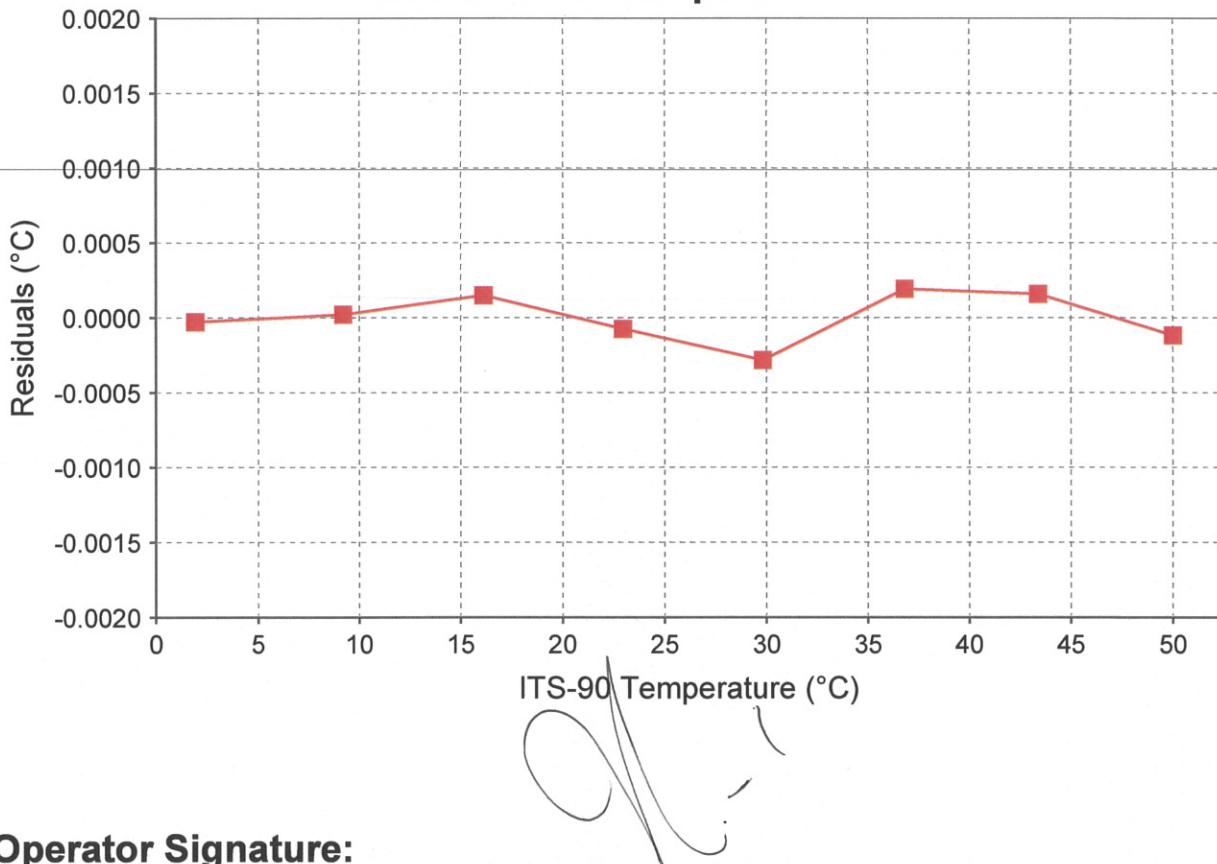
Calibration ID: 2075

RBR Temperature Calibration Certificate

Logger ID: XR-420 Serial No: 021968 Channel No: 19

ITS-90 Temp	Voltage Ratio	Residuals	Coefficients
1.95471	0.598142	-0.00003	0.003534356624618
9.21404	0.507111	0.00002	-0.000251991786769
16.13399	0.423437	0.00015	0.000002501866751
22.96510	0.347952	-0.00008	-0.000000052646203
29.84572	0.281495	-0.00029	
36.83440	0.224672	0.00019	
43.40840	0.180697	0.00016	
50.00864	0.144819	-0.00012	

Residuals vs. Temperature



Operator Signature: _____

Operator Name: M Luong

Calibration Date: 6/Nov/2012

Print Date:

Calibration ID: 2076

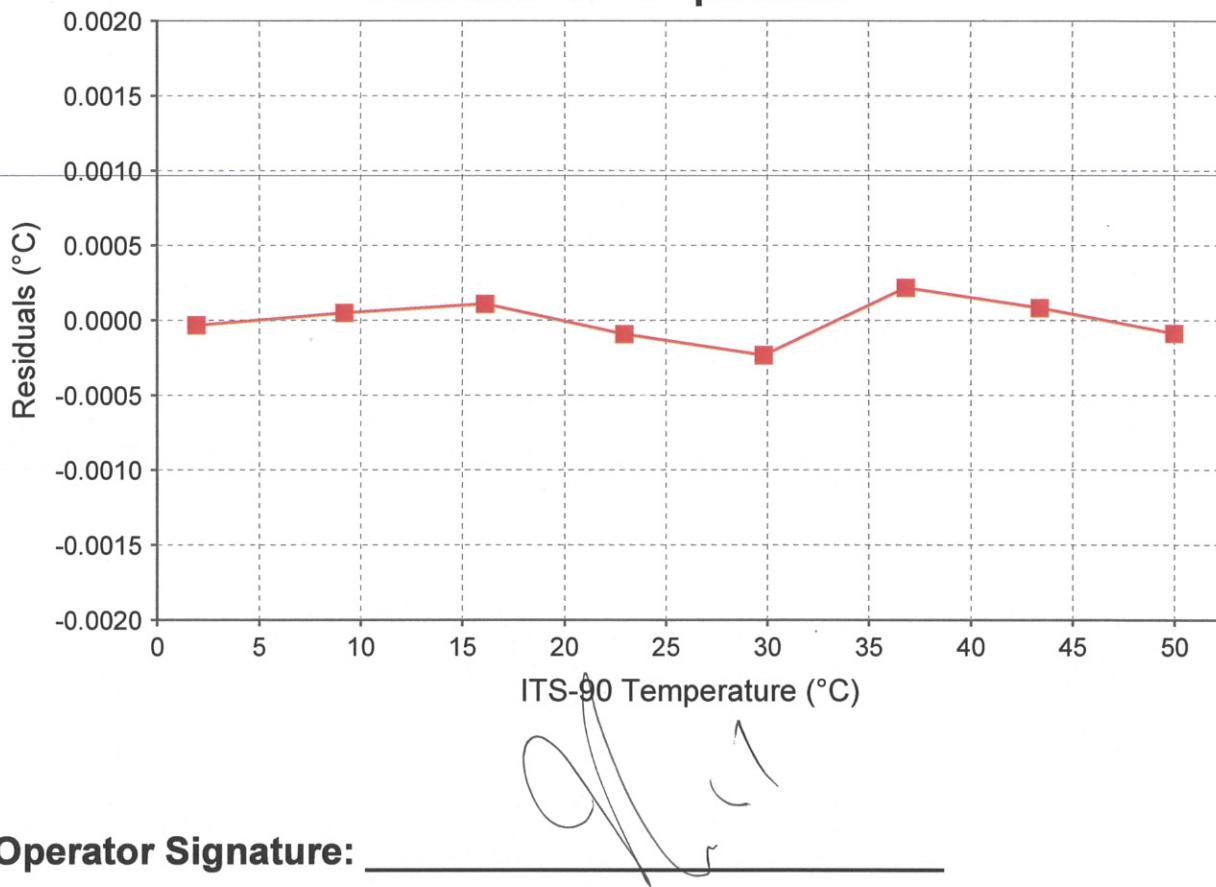
RBR

Temperature Calibration Certificate

Logger ID: XR-420 Serial No: 021968 Channel No: 20

ITS-90 Temp	Voltage Ratio	Residuals	Coefficients
1.95471	0.622893	-0.00004	0.003508274279407
9.21404	0.532999	0.00005	-0.000251225212724
16.13399	0.448863	0.00011	0.000002467895186
22.96509	0.371697	-0.00009	-0.000000060262798
29.84572	0.302753	-0.00023	
36.83440	0.243046	0.00022	
43.40841	0.196356	0.00008	
50.00864	0.157946	-0.00009	

Residuals vs. Temperature



Operator Signature: _____

Operator Name: M Luong

Calibration Date: 6/Nov/2012

Print Date:

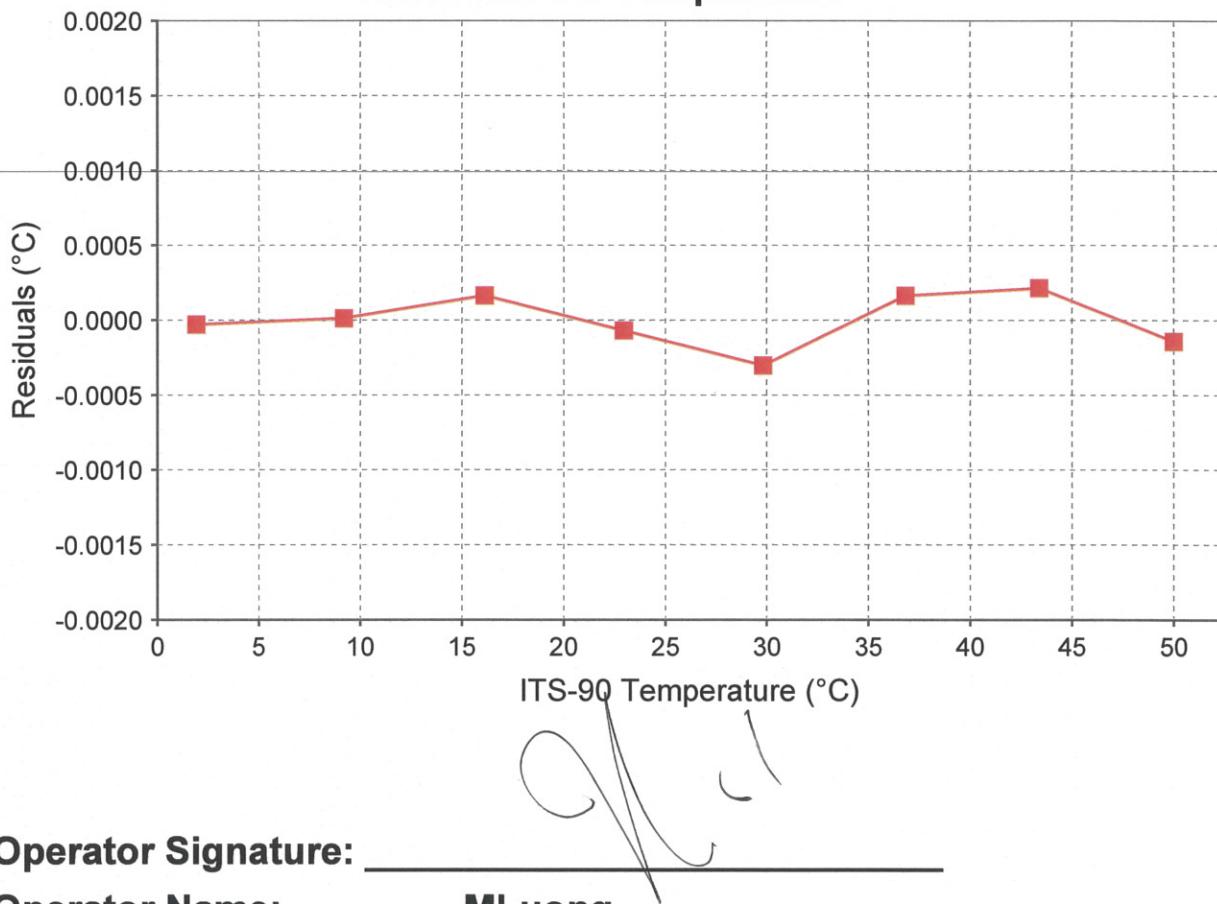
Calibration ID: 2077

RBR Temperature Calibration Certificate

Logger ID: XR-420 Serial No: 021968 Channel No: 21

ITS-90 Temp	Voltage Ratio	Residuals	Coefficients
1.95471	0.590094	-0.00003	0.003543129897784
9.21404	0.498405	0.00001	-0.000251153531111
16.13399	0.414621	0.00016	0.000002548394176
22.96510	0.339477	-0.00007	-0.000000062267401
29.84572	0.273691	-0.00030	
36.83440	0.217737	0.00016	
43.40840	0.174636	0.00021	
50.00864	0.139612	-0.00014	

Residuals vs. Temperature



Operator Signature:

Operator Name: M Luong

Calibration Date: 6/Nov/2012

Print Date:

Calibration ID: 2078

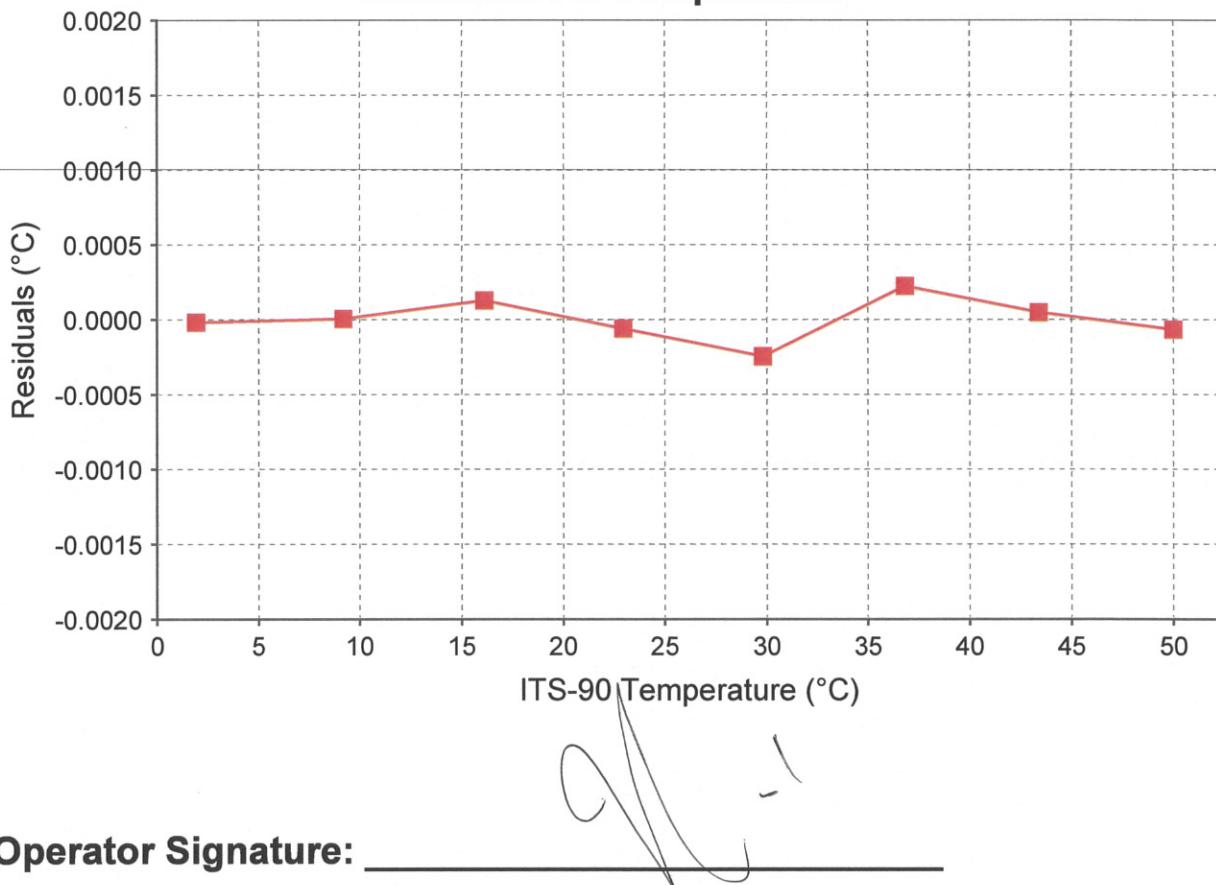
RBR

Temperature Calibration Certificate

Logger ID: XR-420 Serial No: 021968 Channel No: 22

ITS-90 Temp	Voltage Ratio	Residuals	Coefficients
1.95471	0.656327	-0.00002	0.003472414880105
9.21404	0.568586	0.00000	-0.000249639133047
16.13399	0.484367	0.00013	0.000002488344211
22.96510	0.405307	-0.00006	-0.000000053619098
29.84572	0.333174	-0.00025	
36.83440	0.269549	0.00022	
43.40840	0.219045	0.00005	
50.00864	0.177004	-0.00007	

Residuals vs. Temperature



Operator Signature:

Operator Name: MLuong

Calibration Date: 6/Nov/2012

Print Date:

Calibration ID: 2079

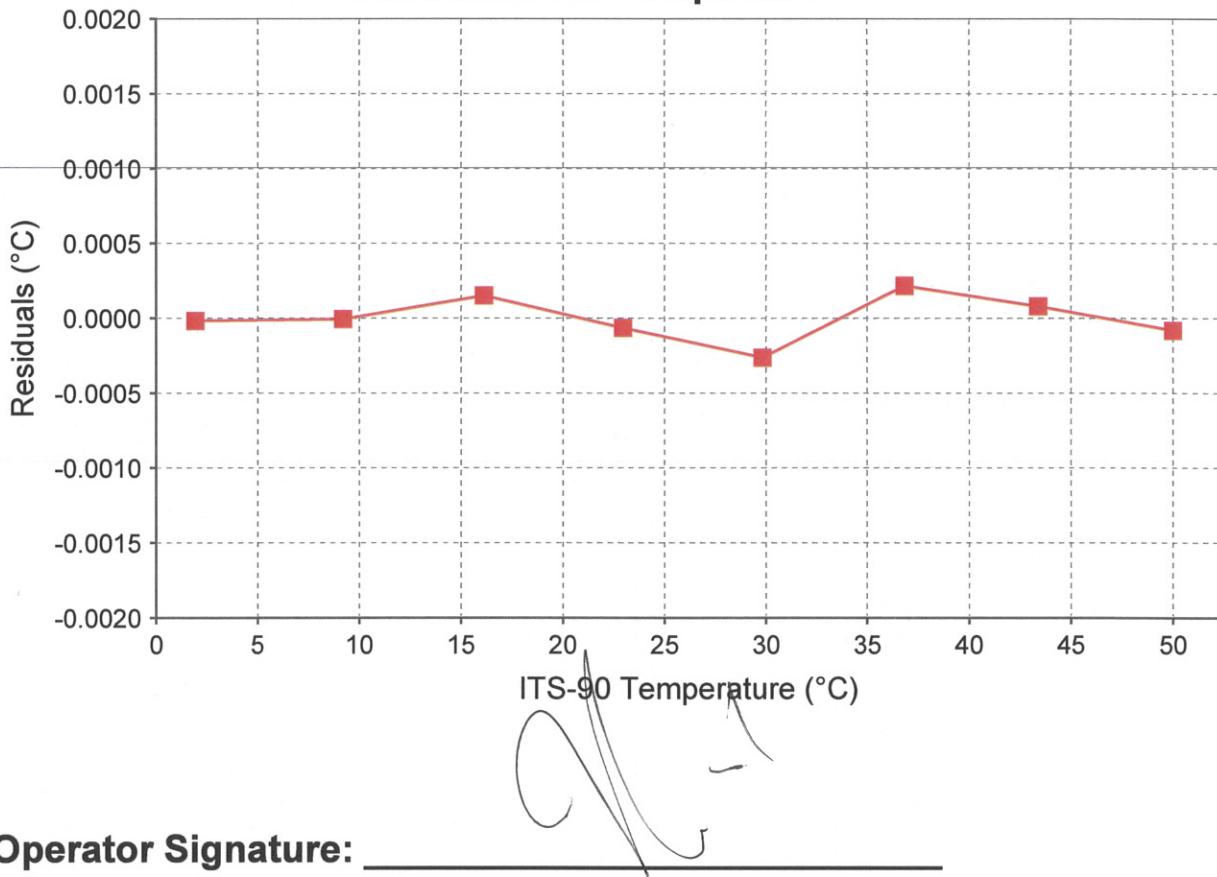
RBR

Temperature Calibration Certificate

Logger ID: XR-420 Serial No: 021968 Channel No: 23

ITS-90 Temp	Voltage Ratio	Residuals	Coefficients
1.95471	0.647072	-0.00002	0.003482474449432
9.21404	0.558629	-0.00001	-0.000250065611772
16.13399	0.474338	0.00015	0.000002470128742
22.96510	0.395732	-0.00007	-0.000000044548188
29.84572	0.324442	-0.00027	
36.83440	0.261890	0.00021	
43.40840	0.212450	0.00008	
50.00864	0.171435	-0.00008	

Residuals vs. Temperature



Operator Signature: _____

Operator Name: M Luong

Calibration Date: 6/Nov/2012

Print Date:

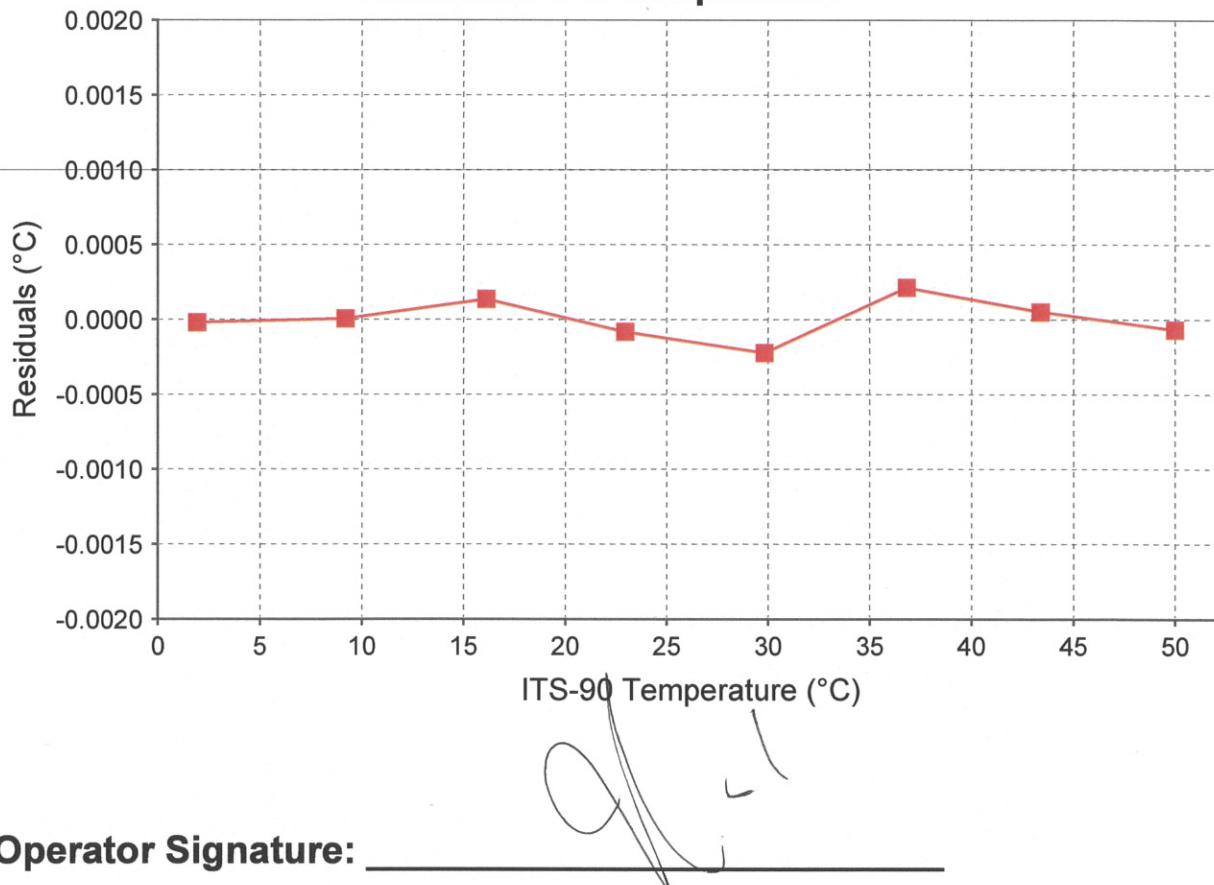
Calibration ID: 2080

RBR Temperature Calibration Certificate

Logger ID: XR-420 Serial No: 021968 Channel No: 24

ITS-90 Temp	Voltage Ratio	Residuals	Coefficients
1.95471	0.614464	-0.00002	0.003517505809780
9.21404	0.523900	0.00000	-0.000250840574934
16.13399	0.439655	0.00013	0.000002521299902
22.96509	0.362848	-0.00008	-0.000000052796149
29.84572	0.294606	-0.00022	
36.83440	0.235808	0.00021	
43.40841	0.190031	0.00005	
50.00864	0.152512	-0.00007	

Residuals vs. Temperature



Operator Signature:

Operator Name: M Luong

Calibration Date: 6/Nov/2012

Print Date:

Calibration ID: 2081

RBR Calibration Shipping Certificate

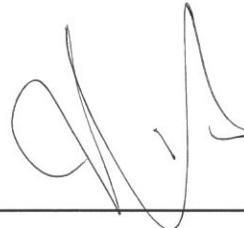
Calibration values for all channels when shipped.

Logger ID: XR-420 Serial No: 21968

2012/Nov/06 10:54:37

1: 0.003484345920839 -0.000250795343891 0.000002466255413 -0.000000046842714
2: 0.003504319278432 -0.000251204828830 0.000002479447498 -0.000000060709783
3: 0.003452453677799 -0.000249630218352 0.000002423119255 -0.000000064489093
4: 0.003525606823305 -0.000250866602804 0.000002528380112 -0.000000065984565
5: 0.003492389111846 -0.000250387621319 0.000002464691194 -0.000000065290782
6: 0.003470696361296 -0.000250240094110 0.000002422292834 -0.000000044500379
7: 0.003508905301658 -0.000251515584649 0.000002511125063 -0.000000043807711
8: 0.003506145098883 -0.000250869607382 0.000002467322372 -0.000000063425541
9: 0.003468751610011 -0.000249917885669 0.000002446246082 -0.000000061652174
10: 0.003485137829698 -0.000251026521665 0.000002436912810 -0.000000062004396
11: 0.003475065087403 -0.000249823064087 0.000002473649694 -0.000000050852051
12: 0.003462218658219 -0.000249968110401 0.000002416070297 -0.000000064373983
13: 0.003468813968009 -0.000250736831211 0.000002385803902 -0.000000058040660
14: 0.003511170158570 -0.000251024826041 0.000002516594278 -0.000000054587710
15: 0.003451088416690 -0.000249303524732 0.000002462899057 -0.000000053015203
16: 0.003465928288946 -0.000250344084237 0.000002483842576 -0.000000043468667
17: 0.003527161837604 -0.000251223111897 0.000002506840950 -0.000000060773241
18: 0.003537780795069 -0.000251533918262 0.000002521933744 -0.000000067816529
19: 0.003534356624618 -0.000251991786769 0.000002501866751 -0.000000052646203
20: 0.003508274279407 -0.000251225212724 0.000002467895186 -0.000000060262798
21: 0.003543129897784 -0.000251153531111 0.000002548394176 -0.000000062267401
22: 0.003472414880105 -0.000249639133047 0.000002488344211 -0.000000053619098
23: 0.003482474449432 -0.000250065611772 0.000002470128742 -0.000000044548188
24: 0.003517505809780 -0.000250840574934 0.000002521299902 -0.000000052796149

Operator: _____



8/Nov/2012