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CALIBRATION RESULTS FOR RAD SN 203. CAL DATE = 2014-10-10.

RUN TIME: 20141010,134136

setupfile: /Users/rmr/Dropbox/instruments/RAD/RAD\_CALIBRATION/203\_ata\_osu/141007/radcal\_setup\_203.  
SN: 203

calpath: ~/Dropbox/instruments/RAD/RAD\_CALIBRATION/203\_ata\_osu/141007

caldate: 141007

Reference voltage = 4100.0 millivolts (TP16)

PSPCAL

-1.0,	-118.05
-0.5,	-58.85
-0.1,	-11.76
0.0,	0.38
0.1,	12.15
0.2,	23.46
0.5,	59.02
1.0,	118.71
2.0,	237.45
4.0,	474.35
8.0,	948.62

PIRCAL

-2.0,	-1687.77
-1.0,	-850.01
-0.8,	-681.55
-0.4,	-350.00
-0.2,	-183.50
0.0,	-15.38
0.2,	151.73
0.4,	316.76
0.6,	485.20
1.0,	817.71

caseR

5600,	591.000
10000,	946.000
14974,	1308.000

domeR

5600,	595.000
10000,	953.000
14974,	1315.000

==== CASE TEMPERATURE =====

Case Rref = 32900, Rref based on measurements of v\_t = 32850. Error = 0.2

Case fit : -6.789e-05 1.295e-01 -5.380e+01

CASE THERMISTOR MILLIVOLTS

Meas	ADC	ADC-Corrected
591.0	590.0	591.0
946.0	954.0	946.0
1308.0	1307.5	1308.0

CASE THERMISTOR OHMS

CalR	Meas	ADC	ADC-corrected
5600	5541	5530	5541
10000	9868	9977	9868
14974	15413	15405	15413

CASE THERMISTOR DEG C

CalR	Meas	ADC	ADC-correc
39.96	40.25	40.30	40.25

25.00	25.33	25.06	25.33
15.24	14.56	14.58	14.56

==== DOME TEMPERATURE =====

Dome Rref = 33020, Rref based on measurements of v\_t = 32574. %Error = 1.4  
Dome fit : -7.561e-06, 1.450e-02, -5.949e+00

DOMESTHERMISTOR MILLIVOLTS

Meas	ADC	ADC-Corrected
595.0	595.0	595.0
953.0	954.0	953.0
1315.0	1315.0	1315.0

DOMESTHERMISTOR OHMS

CalR	Meas	ADC	ADC-corrected
5600	5605	5605	5605
10000	9999	10013	9999
14974	15591	15592	15591

DOMESTHERMISTOR DEG C

CalR	Meas	ADC	ADC-correc
39.96	39.94	39.94	39.94
25.00	25.00	24.97	25.00
15.24	14.30	14.29	14.30

==== PSP THERMOPILE CIRCUIT =====

PSP Calibration Gain (g) = 118.55, Offset (o) = 0.2 millivolts

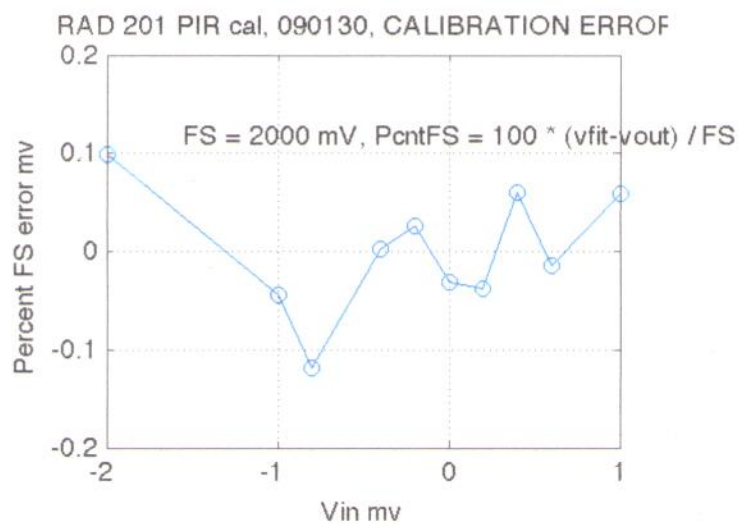
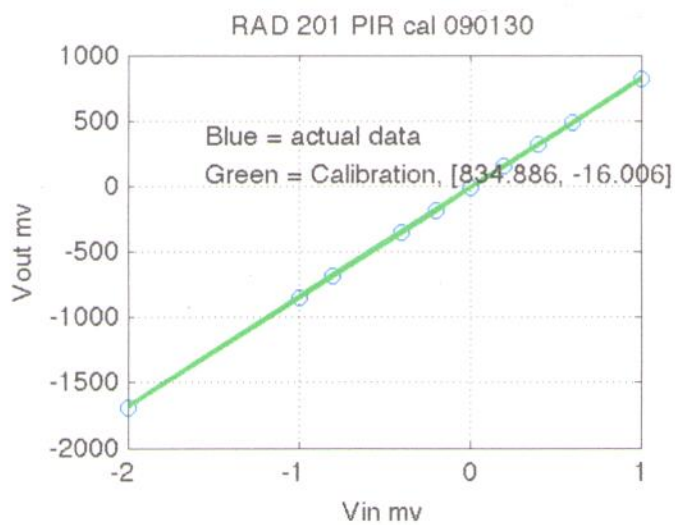
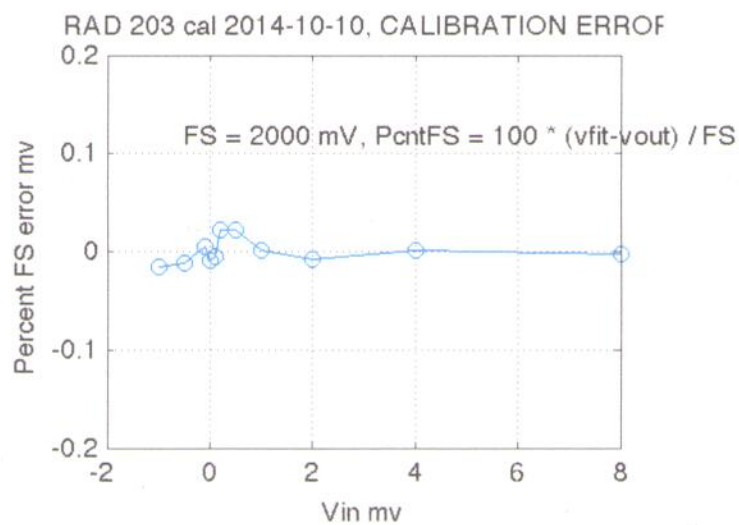
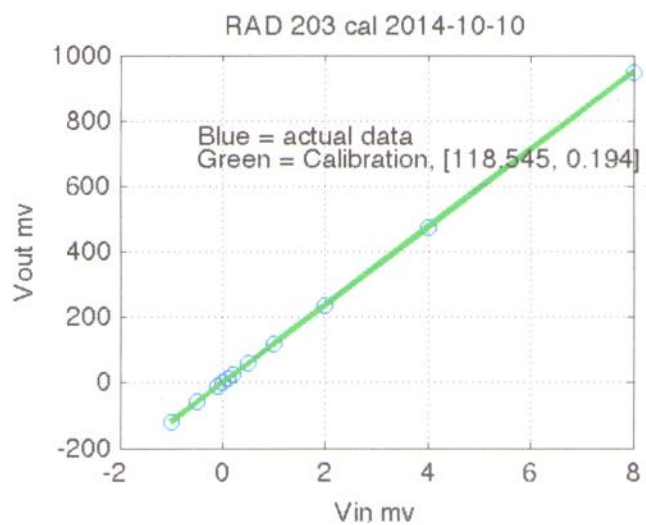
==== PIR THERMOPILE CIRCUIT =====

PIR Calibration Gain (g) = 834.89, Offset (o) = -16.0 millivolts

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RAD SETUP COMMANDS

L : 10  
k : 8e-6 (Eppley PSP cal)  
K : 4e-6 (Eppley PIR cal)  
A : 02 (Experiment or SN, 2 digits)  
V : 4100  
C 0 : 32850  
C 1 : -6.789e-05  
C 2 : 1.295e-01  
C 3 : -5.380e+01  
D 0 : 32574  
D 1 : -7.561e-06  
D 2 : 1.450e-02  
D 3 : -5.949e+00  
g : 118.55  
o : 0.19  
G : 834.89  
O : -16.01

*Jeremiah Reynolds*  
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10/10/2014



**PACKING LIST**

Attention:	Johna Winters	Date:	10/10/2014
Company Name:	OSU	Shipper:	FedEx
Address:	130 Burt Hall	Tracking #:	7714 6152 7472
City, State Zip Code:	Corvallis, OR. 97331	Qty. Boxes:	1
Phone:	(541) 737-4622	Weight:	5

Item	Part	SN	Qty.
1	RAD board	203	1
2	RAD board	211	1

Best regards,

Jeremiah Reynolds

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