

WHEN BOTH ain0& ain3 CONFIGURED AS IDAC0&IDAC1 RESPECTIVELY:

```

ADC Value: 7FFFFF.....>>>.....8388607
Resistance: 102.50
ADC Value: 7FFFFF.....>>>.....8388607
Resistance: 102.50
ADC Value: 7FFFFF.....>>>.....8388607
Resistance: 102.50
ADC Value: 0.....>>>.....0  RESET
Resistance: 0.00
ADC Value: 0.....>>>.....0
Resistance: 0.00
ADC Value: 0.....>>>.....0
Resistance: 0.00
ADC Value: 0.....>>>.....0
Resistance: 0.00
ADC Value: 0.....>>>.....0
Resistance: 0.00
ADC Value: 0.....>>>.....0
Resistance: 0.00
ADC Value: 303030.....>>>.....3158064  RESET
Resistance: 38.59
ADC Value: 4B6324.....>>>.....4940580
Resistance: 60.37
ADC Value: 4B62C4.....>>>.....4940484
Resistance: 60.37
ADC Value: 4B664F.....>>>.....4941391

```

WHEN ONLY AIN3 CONFIGURED AS IDAC1(SECOND IDAC SOURCE):-

```



//Set IDAC0 Register (0Ah)
//[2:0]=IDAC Excitation Current Magnit
SPI.transfer(WRITE|IDAC_0);
SPI.transfer(0x00);
SPI.transfer(0x06);

SPI.transfer(WRITE|IDAC_1);
SPI.transfer(0x00);
SPI.transfer(0xF3);

delayMicroseconds(10);
//TD CS. HIGH);

```

```

ADC Value: FFD70E.....>>>.....16766734
Resistance: 204.87
ADC Value: FFD6FF.....>>>.....16766719
Resistance: 204.87
ADC Value: FFD6FF.....>>>.....16766719  RESET
Resistance: 204.87
ADC Value: 0.....>>>.....0
Resistance: 0.00
ADC Value: 0.....>>>.....0
Resistance: 0.00
ADC Value: 332001.....>>>.....3350529  RESET
Resistance: 40.94
ADC Value: 1B406.....>>>.....111622
Resistance: 1.36
ADC Value: 13403D.....>>>.....1261629
Resistance: 15.42
ADC Value: F40024.....>>>.....15990820
Resistance: 195.39
ADC Value: 101340.....>>>.....1053504
Resistance: 12.87
ADC Value: 37C0F.....>>>.....228367
Resistance: 2.79
ADC Value: 828000.....>>>.....8552448
Resistance: 104.50
ADC Value: 0.....>>>.....0
Resistance: 0.00
ADC Value: 0.....>>>.....0
Resistance: 0.00
ADC Value: 4B7457.....>>>.....4944983
Resistance: 60.42
ADC Value: 4B7661.....>>>.....4945505
Resistance: 60.43
ADC Value: 4B76FD.....>>>.....4945661
Resistance: 60.43
ADC Value: 4B7A2D.....>>>.....4946477

```

ATTAINED CONSTANT VALUE

WHEN ONLY AIN3 CONFIGURED AS IDAC0(FIRST IDAC SOURCE):-

```

delayMicroseconds(800); //0.8ms
SPI.transfer(SDATAC);
delay(210);

SPI.transfer(WRITE|MULTIPLEXER);
SPI.transfer(0x01); //2bytes
SPI.transfer(0x20);
SPI.transfer(0x22);

SPI.transfer(WRITE|MULTIPLEXER);
SPI.transfer(0x00);
SPI.transfer(0x0A);

//Set IDAC0 Register (0Ah)
//[2:0]=IDAC Excitation Current
SPI.transfer(WRITE|IDAC_0);
SPI.transfer(0x00);
SPI.transfer(0x06);

SPI.transfer(WRITE|IDAC_1);
SPI.transfer(0x00);
SPI.transfer(0x3F);

```

Resistance:	5.26
ADC Value:	3D00F4.....>>>.....3997940
Resistance:	48.85
ADC Value:	240410.....>>>.....2360336
Resistance:	28.84
ADC Value:	405903.....>>>.....4217091
Resistance:	51.53
ADC Value:	F0082.....>>>.....983170
Resistance:	12.01
ADC Value:	0.....>>>.....0
Resistance:	0.00
ADC Value:	2800.....>>>.....10240
Resistance:	0.13
ADC Value:	880000.....>>>.....8912896
Resistance:	108.91
ADC Value:	1BC01.....>>>.....113665
Resistance:	1.39
ADC Value:	69013.....>>>.....430099
Resistance:	5.26
ADC Value:	3D00F4.....>>>.....3997940
Resistance:	48.85
ADC Value:	240410.....>>>.....2360336
Resistance:	28.84
ADC Value:	405903.....>>>.....4217091
Resistance:	51.53

WHEN ONLY AIN0 CONFIGURED AS IDAC0(FIRST IDAC SOURCE):-

```

SPI.transfer(SDATAC);
delay(210);

SPI.transfer(WRITE|MULTIPLEXER);
SPI.transfer(0x01); //2bytes
SPI.transfer(0x20); //38; //2
SPI.transfer(0x22);

SPI.transfer(WRITE|MULTIPLEXER);
SPI.transfer(0x00);
SPI.transfer(0x0A);

//Set IDAC0 Register (0Ah)
//[2:0]=IDAC Excitation Current
SPI.transfer(WRITE|IDAC_0);
SPI.transfer(0x00);
SPI.transfer(0x06);

SPI.transfer(WRITE|IDAC_1);
SPI.transfer(0x00);
SPI.transfer(0x0F);

```

Resistance:	0.00
ADC Value:	2800.....>>>.....10240
Resistance:	0.13
ADC Value:	880000.....>>>.....8912896
Resistance:	108.91
ADC Value:	1BC01.....>>>.....113665
Resistance:	1.39
ADC Value:	69013.....>>>.....430099
Resistance:	5.26
ADC Value:	3D00F4.....>>>.....3997940
Resistance:	48.85
ADC Value:	240410.....>>>.....2360336
Resistance:	28.84
ADC Value:	405903.....>>>.....4217091
Resistance:	51.53
ADC Value:	F0082.....>>>.....983170
Resistance:	12.01
ADC Value:	0.....>>>.....0
Resistance:	0.00
ADC Value:	2800.....>>>.....10240
Resistance:	0.13
ADC Value:	880000.....>>>.....8912896
Resistance:	108.91
ADC Value:	1BC01.....>>>.....113665

WHEN ONLY AIN0 CONFIGURED AS IDAC1(SECOND IDAC SOURCE):-

<code>delayMicroseconds(600);</code>	Resistance: 40.94
<code>SPI.transfer(SDATAC);</code>	ADC Value: 1B406.....>>>.....111622
<code>delay(210);</code>	Resistance: 1.36
	ADC Value: 13403D.....>>>.....1261629
<code>SPI.transfer(WRITE MULTIP</code>	Resistance: 15.42
<code>SPI.transfer(0x01); //2byt</code>	ADC Value: F40024.....>>>.....15990820
<code>SPI.transfer(0x20);</code>	Resistance: 195.39
<code>SPI.transfer(0x22);</code>	ADC Value: 101340.....>>>.....1053504
	Resistance: 12.87
<code>SPI.transfer(WRITE MULTIP</code>	ADC Value: 37C0F.....>>>.....228367
<code>SPI.transfer(0x00);</code>	Resistance: 2.79
<code>SPI.transfer(0x0A);</code>	ADC Value: 828000.....>>>.....8552448
	Resistance: 104.50
<code>//Set IDAC0 Register (0Ah</code>	ADC Value: 0.....>>>.....0
<code>//[2:0]=IDAC Excitation C</code>	Resistance: 0.00
<code>SPI.transfer(WRITE IDAC_0</code>	ADC Value: 0.....>>>.....0
<code>SPI.transfer(0x00);</code>	Resistance: 0.00
<code>SPI.transfer(0x06);</code>	ADC Value: 4BA174.....>>>.....4956832
	Resistance: 60.56
<code>SPI.transfer(WRITE IDAC_1</code>	ADC Value: 4BA6C9.....>>>.....4957897
<code>SPI.transfer(0x00);</code>	Resistance: 60.58
<code>SPI.transfer(0xF0);</code>	ADC Value: 4BA53A.....>>>.....4957498
	Resistance: 60.58
	ADC Value: 4BA396.....>>>.....4957078
	Resistance: 60.57