

Temperature Sensor(ADT7410)

20140106

Reference;
i2c_utility_0.1.f
ADT7410_0.2.f

ADT7410's slave address is h48.

Prop0 Cog6 ok

i2c_detect

0 1 2 3 4 5 6 7 8 9 A B C D E F

00: 00 - - - - -

10: - - - - -

20: - - - - -

30: - - - - -

40: - - - - - 48 - - - - -

50: 50 - - - - -

60: - - - - -

70: - - - - -

i2c_device:2

Prop0 Cog6 ok

All register-values(default) are below;

Prop0 Cog6 ok

disp_reg

Address value(hex)

0 08

1 B0

2 80

3 40

4 20

5 00

6 05

7 00

8 49

9 80

10 05

11 CB

Prop0 Cog6 ok

Getting temperature by continuous mode.

```
Prop0 Cog6 ok
cont Measure_Temp
T-CRIT T-HIGH. T-LOW Temperature[degree] [Continuous mode]
OFF OFF OFF 17 .4375
OFF OFF OFF 17 .4375
OFF OFF OFF 17 .3750
OFF OFF OFF 17 .5000
OFF OFF OFF 17 .7500
OFF OFF OFF 17 .8750
OFF OFF OFF 18 .1875 <-- Touched finger on chip
OFF OFF OFF 18 .4375
OFF OFF OFF 18 .6875
OFF OFF OFF 18 .9375
OFF OFF OFF 19 .1250
OFF OFF OFF 19 .3125
OFF OFF OFF 19 .5000
OFF OFF OFF 19 .5625
OFF OFF OFF 19 .7500
OFF OFF OFF 19 .8125
OFF OFF OFF 19 .8750
OFF OFF OFF 20 .0000
OFF OFF OFF 20 .1250
OFF OFF OFF 20 .1875

T-CRIT T-HIGH. T-LOW Temperature[degree] [Continuous mode]
OFF OFF OFF 20 .2500
OFF OFF OFF 20 .3125
OFF OFF OFF 20 .3750
OFF OFF OFF 20 .2500 <--- Release finger
OFF OFF OFF 20 .1875
OFF OFF OFF 20 .0000
OFF OFF OFF 19 .8750
OFF OFF OFF 19 .7500 <-- hit any key
Prop0 Cog6 ok
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Getting temperature by one-shot mode.

```
Prop0 Cog6 ok
1-shot Measure_Temp
T-CRIT T-HIGH. T-LOW Temperature[degree] [1-shot mode]
OFF OFF OFF 17 .7500
OFF OFF OFF 17 .7500
OFF OFF OFF 17 .6875
OFF OFF OFF 17 .6875
OFF OFF OFF 17 .6875
OFF OFF OFF 17 .7500
OFF OFF OFF 17 .6875
OFF OFF OFF 17 .7500
OFF OFF OFF 18 .1250 <-- Touched finger on chip
OFF OFF OFF 18 .5625
OFF OFF OFF 18 .9375
OFF OFF OFF 19 .2500
OFF OFF OFF 19 .5000
OFF OFF OFF 19 .7500
OFF OFF OFF 19 .9375
OFF OFF OFF 20 .1250
OFF OFF OFF 20 .3125 <--- Release finger
OFF OFF OFF 20 .3125
OFF OFF OFF 20 .1875
OFF OFF OFF 20 .0625
```

T-CRIT	T-HIGH.	T-LOW	Temperature[degree]	[1-shot mode]
OFF	OFF	OFF	19 .9375	
OFF	OFF	OFF	19 .8125	
OFF	OFF	OFF	19 .6875	
OFF	OFF	OFF	19 .6250	
OFF	OFF	OFF	19 .5625	
OFF	OFF	OFF	19 .5000	
OFF	OFF	OFF	19 .3750	
OFF	OFF	OFF	19 .3125	
OFF	OFF	OFF	19 .2500	<-- hit any key

Prop0 Cog6 ok

Getting temperature by SPS mode.

Prop0 Cog6 ok

SPS Measure_Temp

T-CRIT	T-HIGH.	T-LOW	Temperature[degree]	[SPS mode]
OFF	OFF	OFF	19 .1875	
OFF	OFF	OFF	17 .6875	
OFF	OFF	OFF	17 .7500	
OFF	OFF	OFF	17 .7500	
OFF	OFF	OFF	17 .8750	
OFF	OFF	OFF	18 .5000	<-- Touched finger on chip
OFF	OFF	OFF	19 .6250	
OFF	OFF	OFF	20 .2500	
OFF	OFF	OFF	20 .8125	
OFF	OFF	OFF	21 .1250	
OFF	OFF	OFF	21 .5625	
OFF	OFF	OFF	21 .6875	
OFF	OFF	OFF	21 .1875	<--- Release finger
OFF	OFF	OFF	20 .7500	
OFF	OFF	OFF	20 .5625	
OFF	OFF	OFF	20 .3750	
OFF	OFF	OFF	20 .1875	
OFF	OFF	OFF	20 .0000	
OFF	OFF	OFF	19 .8750	
OFF	OFF	OFF	19 .8125	

T-CRIT	T-HIGH.	T-LOW	Temperature[degree]	[SPS mode]
OFF	OFF	OFF	19 .7500	
OFF	OFF	OFF	19 .6250	<-- hit any key

Prop0 Cog6 ok