

Temperature Sensor(ADT7410)

20140413

Reference;
i2c_utility_0.2.1.f
ADT7410_0.2.f

ADT7410 also reply to GeneralCall.

```
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 -- -- -- -- -- -- -- -- -- ADT7410's slave address is h48.
50: 50 -- -- -- -- -- -- -- -- -- -- -- -- -- -- -- --
60: -- -- -- -- -- -- -- -- -- -- -- -- -- -- -- --
70: -- -- -- -- -- -- -- -- -- -- -- -- -- -- -- --
i2c_device:2
[0 - 7] and [h78 - h7F] are reserve-address

Prop0 Cog6 okProp0 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
```

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

```