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[Forum: 16-bit PIC/dsPIC \(請註明使用的元件標號\)](#)

Topic: MCP9808 Alert 問題

Subject: MCP9808 Alert 問題

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各位先進 好：

我照著MCP9808 溫度Sensor datasheet的範例去實做，發現無論TA高於或低於TUPPER Limit 與TCRITICAL Limit，Alert都會觸發，Alert會觸發是因為 TA vs. TCRIT bit 是 always High，請問 TA vs. TCRIT bit always High的原因是什麼？

附上相關暫存器的設定，請各位先進指點一二，謝謝您。

```
void writeConfig()
{
    StartI2C2(); // send START command
    WriteM12C2((MCP9808_I2CADDR_DEFAULT << 1) & 0xFE); //WRITE Command also, make sure
bit 0 is cleared '0'
    WriteM12C2(MCP9808_REG_CONFIG); // Write CONFIG Register
    WriteM12C2(0x00); // Write data
    WriteM12C2(0x80); // Write data
    StopI2C2(); // send STOP command
}
void writeTupper()
{
    StartI2C2(); // send START command
    WriteM12C2((MCP9808_I2CADDR_DEFAULT << 1) & 0xFE); //WRITE Command also, make sure
bit 0 is cleared '0'
    WriteM12C2(MCP9808_REG_UPPER_TEMP); // Write CONFIG Register
    WriteM12C2(0x04); // Write data    70 C
    WriteM12C2(0x60); // Write data
    StopI2C2(); // send STOP command
}
void writeTlower()
{
    StartI2C2(); // send START command
    WriteM12C2((MCP9808_I2CADDR_DEFAULT << 1) & 0xFE); //WRITE Command also, make sure
bit 0 is cleared '0'
    WriteM12C2(MCP9808_REG_LOWER_TEMP); // Write CONFIG Register
    WriteM12C2(0x00); // Write data    0 C
    WriteM12C2(0x00); // Write data
    StopI2C2(); // send STOP command
}
void writeTcrit()
```

```
{
    StartI2C2(); // send START command
    WriteM12C2((MCP9808_I2CADDR_DEFAULT << 1) & 0xFE); //WRITE Command also, make sure
    bit 0 is cleared '0'
    WriteM12C2(MCP9808_REG_CRIT_TEMP); // Write CONFIG Register
    WriteM12C2(0x05); // Write data      80 C
    WriteM12C2(0x00); // Write data
    StopI2C2(); // send STOP command
}
```