

# 您設計產品時的好朋友！



Forum: [16-bit PIC24/dsPIC](#)  
Topic: MCP9808 Alert 問題  
Subject: Re: MCP9808 Alert 問題  
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Adam Syu 您好：

我有將Bit3, Alert Output Control Bit打開，Alert腳位確實有觸發，謝謝。

當 Alert Output Control Bit 打開，TA < TUPPER Limit 與 TA < TCRITICAL Limit 時，請問為什麼Alert腳位還是會觸發？

我測量到TA(26度C)是 小於TUPPER Limit(70度C)； 小於TCRITICAL Limit(80度C)； 也大於TLOWER Limit(0度C)，而且用示波器量波形發現是 TA vs. TCRIT bit 是 always High，請問為什麼TA vs. TCRIT bit 是 always High？

```
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);
    WriteM12C2(0x08); // Alert Output Control Bit set 1
    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(CP9808_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'
```

```
WriteI2C2(MCP9808_REG_LOWER_TEMP); // Write CONFIG Register
WriteI2C2(0x00); // Write data 0 C
WriteI2C2(0x00); // Write data
StopI2C2(); // send STOP command
}
void writeTcrit()
{
    StartI2C2(); // send START command
    WriteI2C2((MCP9808_I2CADDR_DEFAULT << 1) & 0xFE); //WRITE Command also, make sure
bit 0 is cleared '0'
    WriteI2C2(MCP9808_REG_CRIT_TEMP); // Write CONFIG Register
    WriteI2C2(0x05); // Write data 80 C
    WriteI2C2(0x00); // Write data
    StopI2C2(); // send STOP command
}
```