

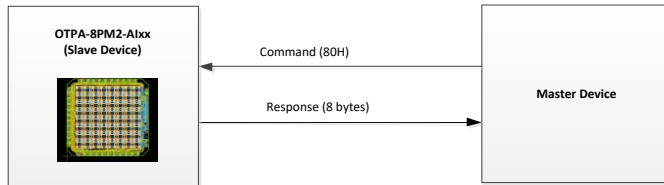


OTPA 通信協定

眾智光電

—創造無限可能的未來

I2C data reading



Legend:

S START Condition

Sr Repeated START Condition

Rd READ (bit value 1)

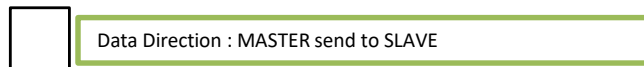
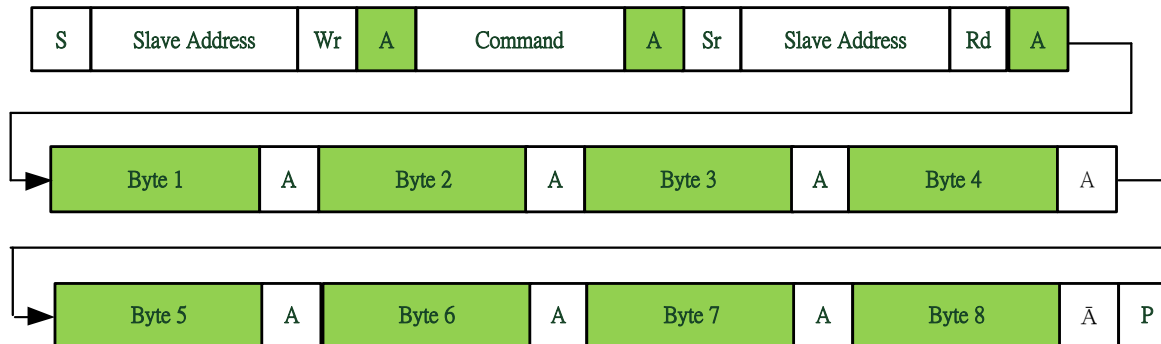
Wr WRITE (bit value 0)

A ACKNOWLEDGE (ACK)

\bar{A} NOT ACKNOWLEDGE (NACK)

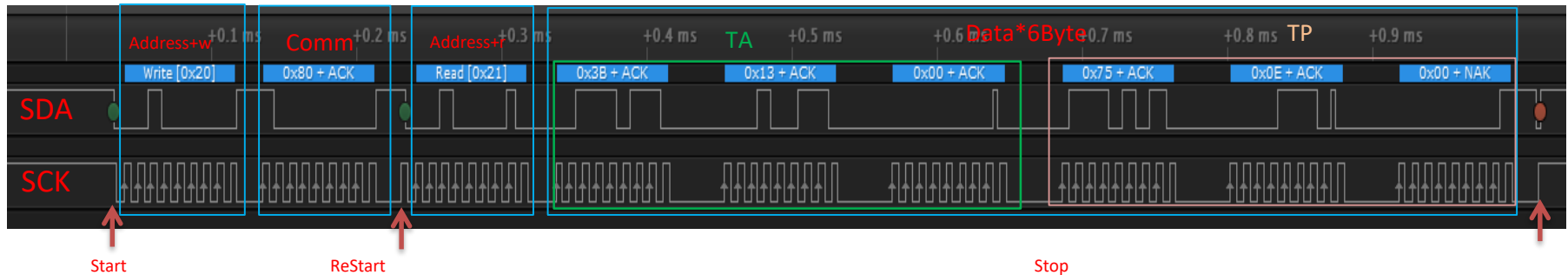
P STOP Condition

(one block data reading)



Single Sensor

➤ Read Data 時脈



$$\text{Ex: TA} = (0x00 * 65536 + 0x13 * 256 + 0x3B) / 200 = 24.61^{\circ}\text{C}$$

$$\text{Ex: TP} = (0x00 * 65536 + 0x0E * 256 + 0x75) / 200 = 18.5^{\circ}\text{C}$$

Exsample C++ Code :

```
float Th = (buffer[2]+buffer[3]*256+buffer[4]*65536)/2;  
if (Th >= 4194304) Th = Th - 8388608;  
Th=Th/100;
```

※第二行判斷是否為負值(負溫)