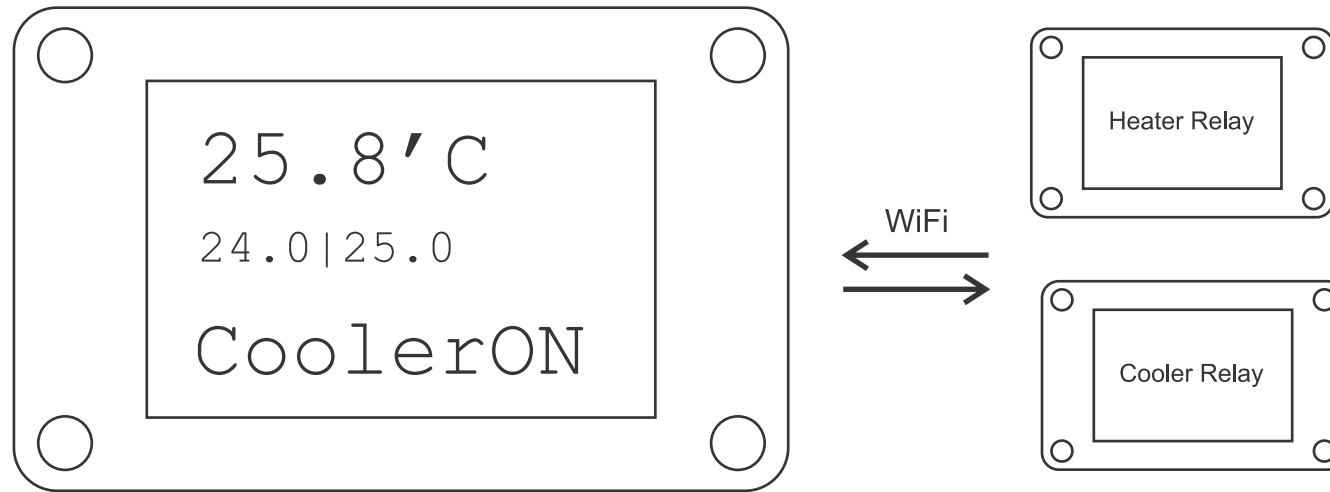


# 温度模块 DS18x20

## Temperature Module DS18x20



### Heater & Cooler relay control

### 加热器和冷却器继电器控制

Measures Temperatures from  $-55^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$  ( $-67^{\circ}\text{F}$  to  $+257^{\circ}\text{F}$ )

$\pm 0.5^{\circ}\text{C}$  Accuracy from  $-10^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$

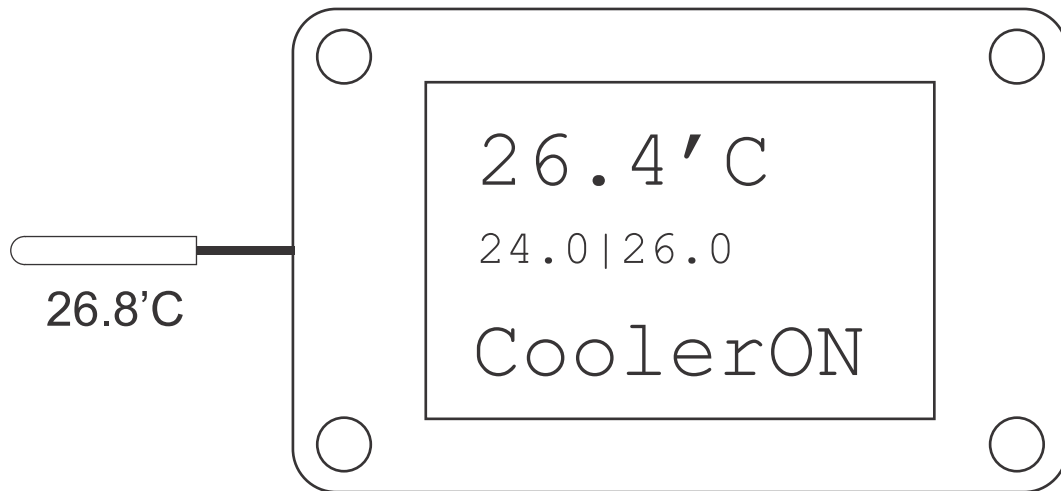
测量温度范围： $-55^{\circ}\text{C}$  至  $+125^{\circ}\text{C}$  ( $-67^{\circ}\text{F}$  至  $+257^{\circ}\text{F}$ )

$-10^{\circ}\text{C}$  至  $+85^{\circ}\text{C}$  范围内精度为  $\pm 0.5^{\circ}\text{C}$

WiFi communication between module & relay

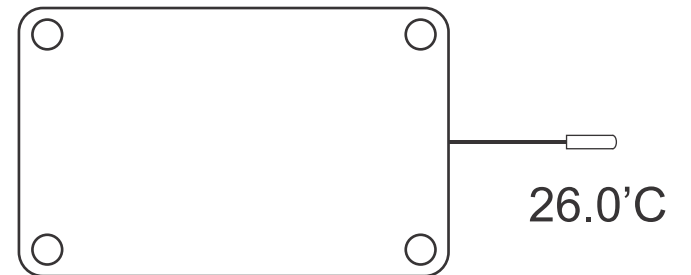
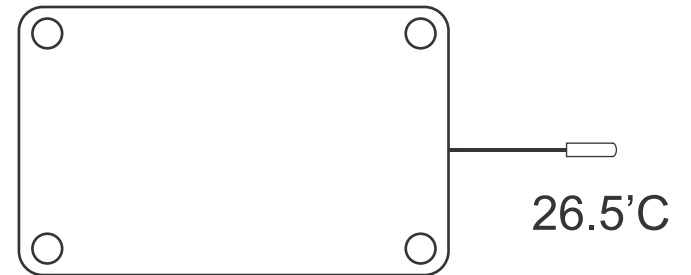
模块与继电器之间的WiFi通信



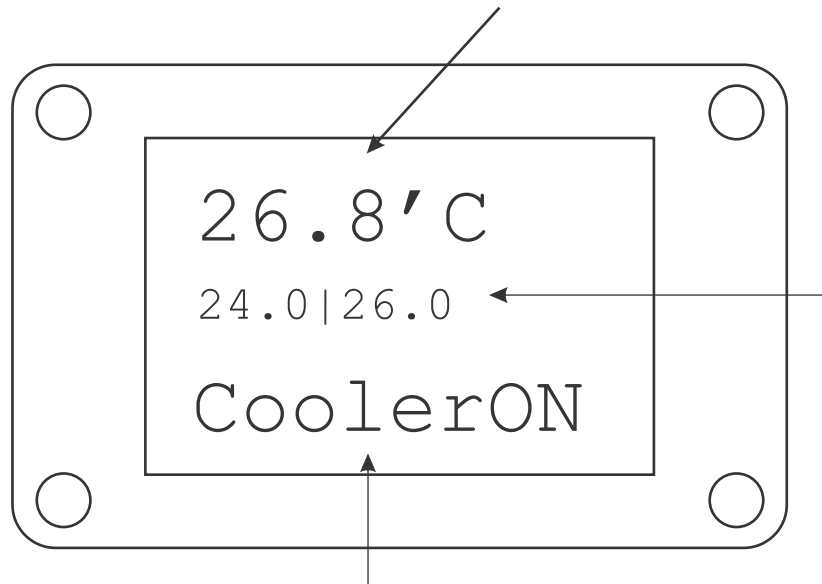


Average Temperature output  
平均温度输出

$$(26.5+26.8+26.0)/3=26.4$$



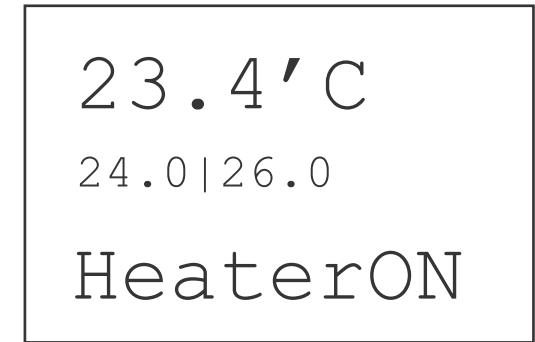
Average Temperature output  
平均温度输出



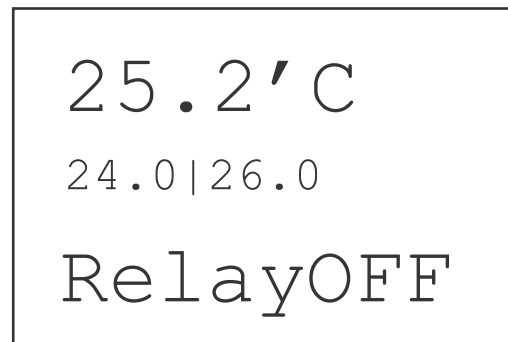
加热器/冷却器状态

Heater / Cooler status  
26.8 > 26.0 Cooler Relay ON

温度范围  
Temperature Range  
min. 0.1



23.4 < 24.0 Heater Relay ON  
加热器继电器开启



24.0 > 25.2 < 26.0  
Heater & Cooler Relay OFF  
加热器和冷却器继电器关闭

