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1/ General Information

1.1 Description

ECH-c1 series repeater is compatible to ECH-b1 series Tempatch Wireless Intelligent Thermometer. The repeater collects temperature data of Tempatch and transfers to cloud server via Ethernet or WLAN to achieve real-time remotely body temperature monitoring. Moreover, the repeater can display room temperature and relative humidity, human body temperature measured by Tempatch and send remind when the temperature is higher than the setting remind temperature.

ECH-c1 series repeater adopts Bluetooth® 4.0 technology and is compatible to ECH-b1 Tempatch. It can continuously collect and display real-time temperature data of Tempatch and proceed quick and effective body temperature measurement without disturbing the patients. When the body temperature collected is exceed setting remind temperature, users will receive remind.

1.2 Specification

1.2.1 - Main feature |

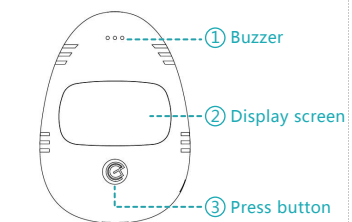
- Bluetooth® 4.0
- 10Mbps Ethernet
- DHCP service
- 802.11 b/g/n
- Local display, remind
- Room temperature and relative humidity display
- Cloud server for remote service
- Easy setup by APP

1.2.2 - Specificaion |

- Model: ECH-c1
- Size: 130mm X 93mm X 33mm
- Comply with IEEE 802.3 ethernet, IEEE 802.11/b/g/n
- Support DHCP, TCH/IP, HTTP protocol
- 2 LEDs for status, dual digital display
- Room temperature and relative humidity display. Temperature accuracy: 0.5 °C, RH accuracy: 5%
- Bluetooth® transfer distance: 10 meters
- Micro USB power supply
- Working condition: 0~40°C, 10~95%RH(No condensing)

2/ Hardware description

2.1 Front Panel



Buzzer

- Beep sound will be received when the setting remind temperature is reached.

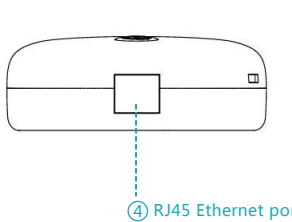
LED Status and Digital Display

- Red LED (Power Indicator)
ON – Power supply OK
OFF – Power supply Fail
- Green LED (Network status Indication)
ON – Network Connection OK
OFF – No Network Connection
- Dual Digital Display (Digital Display)
No Tempatch connection: Display room temperature and relative humidity
With Tempatch connection: Display last two code of connected Tempatch on left digital tube, display body temperature of according Tempatch on right digital tube.

Press Button

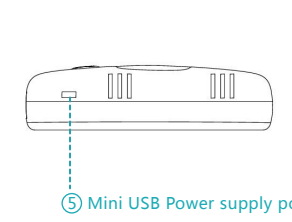
- press the button to turn off the remind; if the temperature is continuously higher than the remind setting, beep sound will be received again after 30 minutes.

2.2 RJ45 Ethernet port



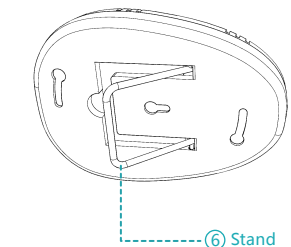
The port can connect hub, switch and router

2.3 Mini USB Power supply port



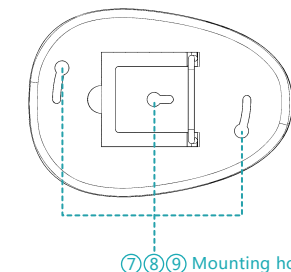
DC 5V power supply

2.4 Stand



Make the repeater stand on the table

2.5 Mounting holes



The hole in center is for wall-mounting, the other two are for ceiling-mounting

3/ How to use

Transmission Mode /

3.1 Network setup

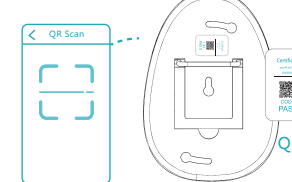
(The repeater can connect to maximum 3 pieces of Tempatch™ in transmission mode.)

3.1.1 - Ethernet Network Setup

Step 1: Plug the cable into the Ethernet port.

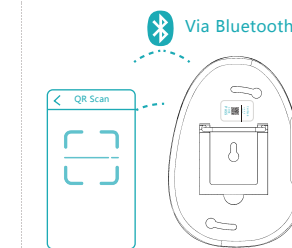
Step 2: Connect 5V power supply to the repeater through USB cable, the red LED is on. Wait for the green LED turning on.

Step 3: (operated only at the first time of use) Open Tempatch APP, scan QR code on repeater and connect to the repeater. Enter the setup page of APP and bind the repeater.



Step 4: Make sure Tempatch has been turned on and bound to the same account with the repeater.

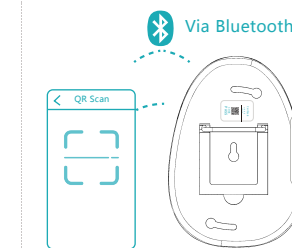
Step 5: The repeater starts to collect temperature data and the display starts to update.



Step 3: (operated only at the first time of use or in the situation of WLAN setup changing) Enter the setup page of APP and bind the repeater, set WLAN connection profile, wait for the green LED turning on.



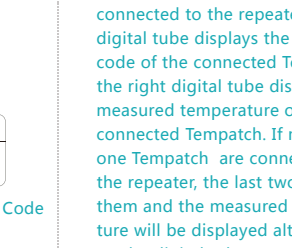
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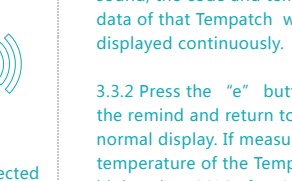
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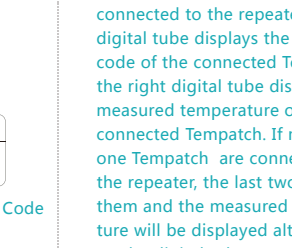
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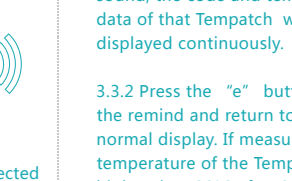
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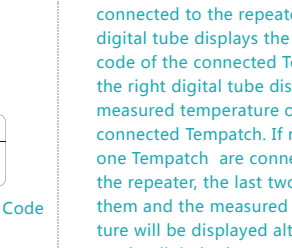
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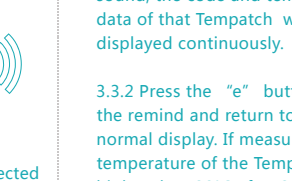
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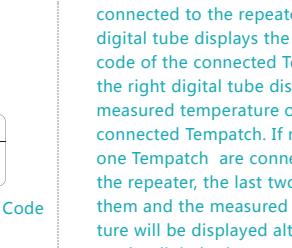
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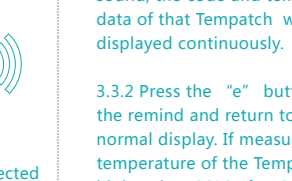
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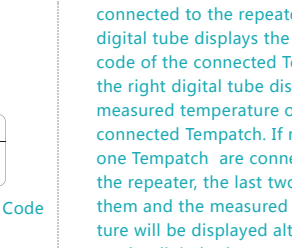
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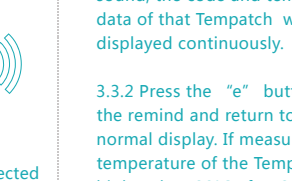
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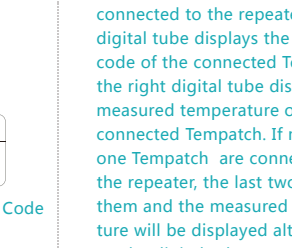
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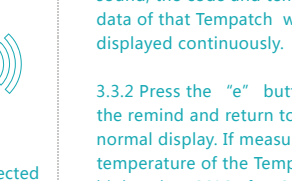
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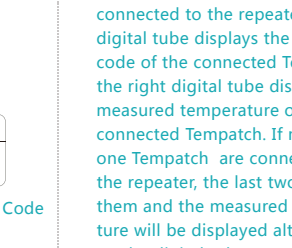
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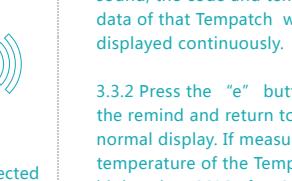
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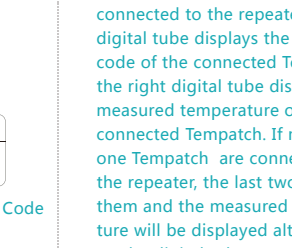
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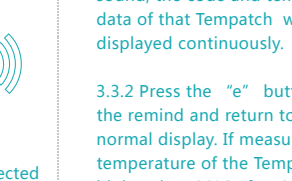
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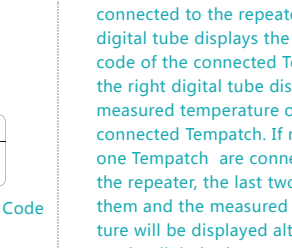
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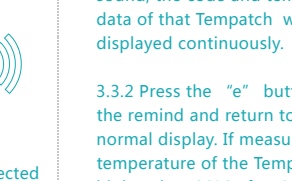
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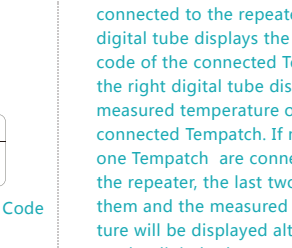
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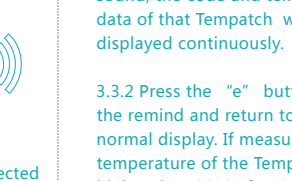
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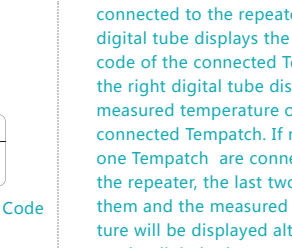
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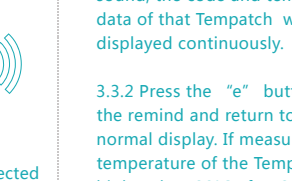
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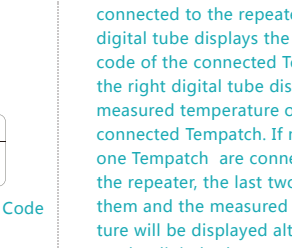
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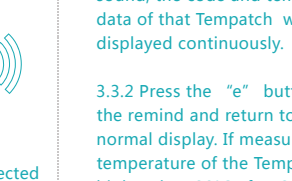
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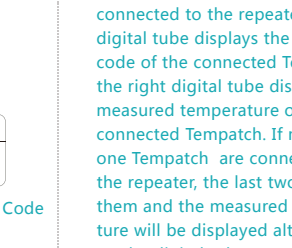
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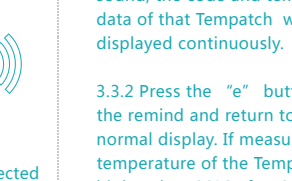
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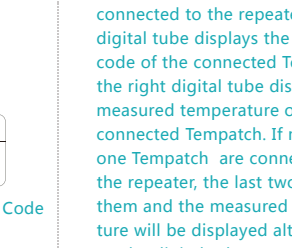
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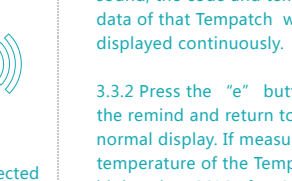
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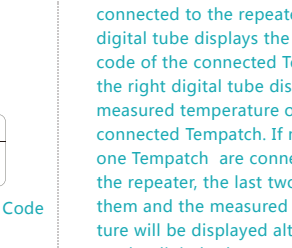
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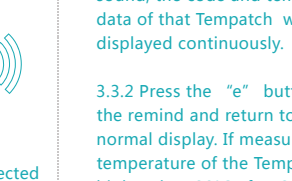
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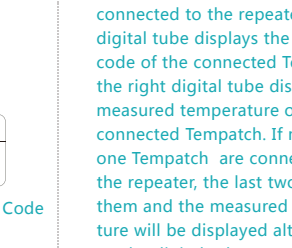
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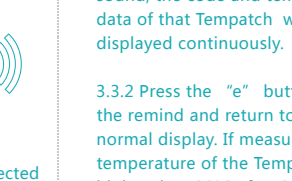
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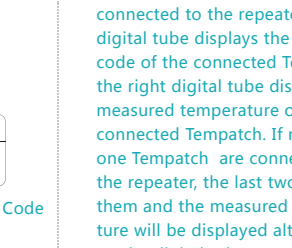
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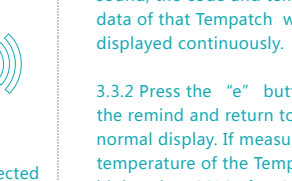
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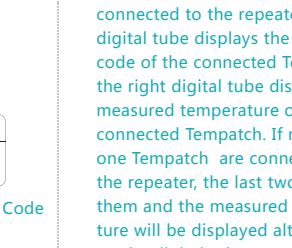
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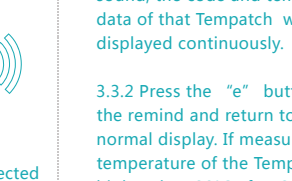
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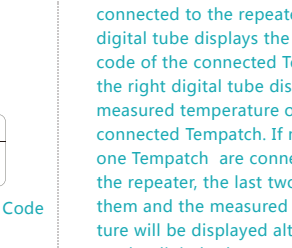
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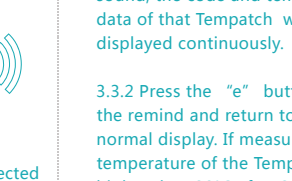
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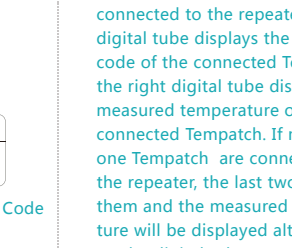
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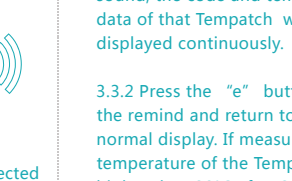
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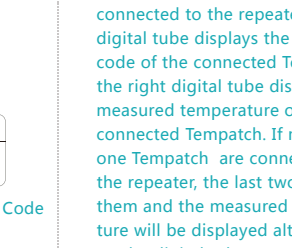
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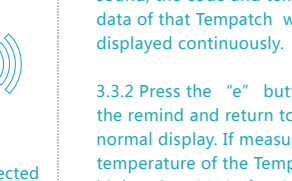
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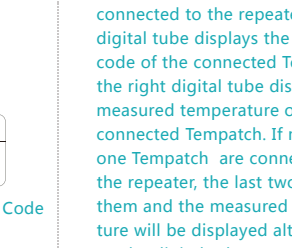
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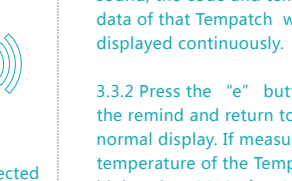
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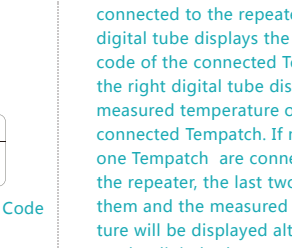
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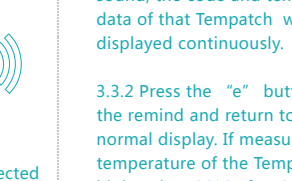
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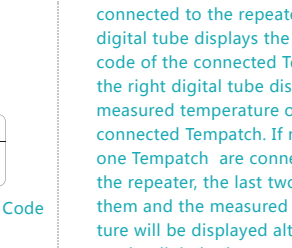
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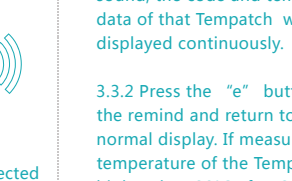
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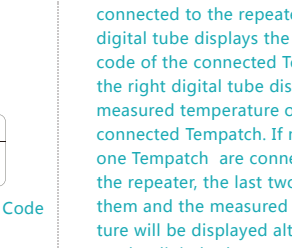
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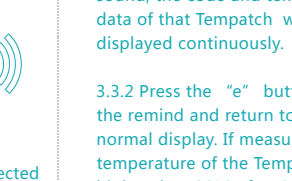
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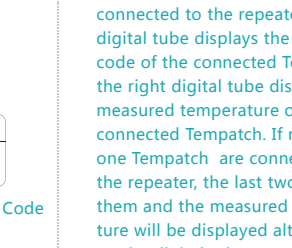
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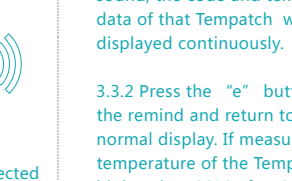
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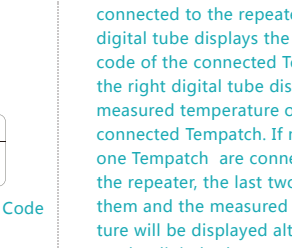
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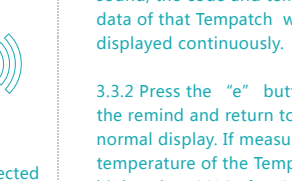
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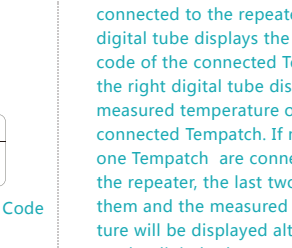
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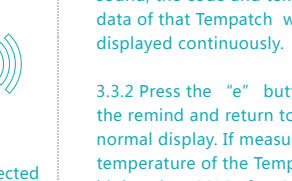
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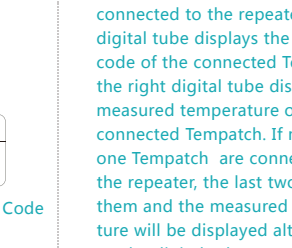
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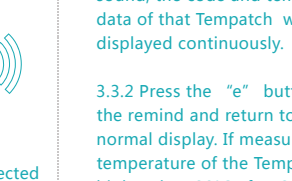
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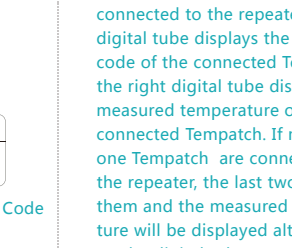
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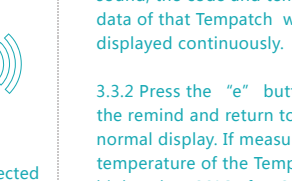
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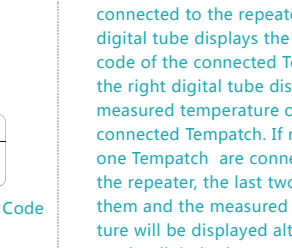
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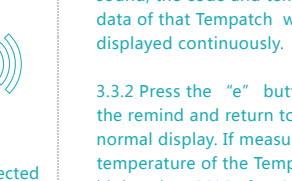
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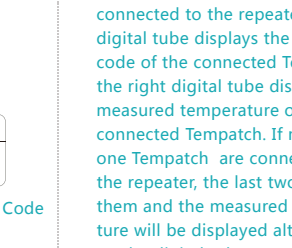
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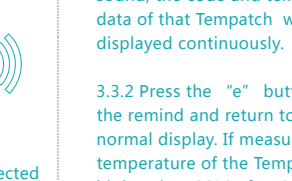
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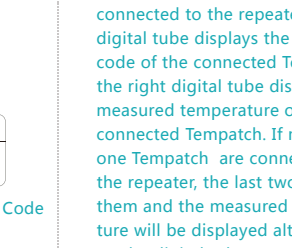
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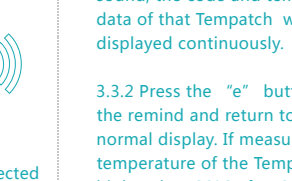
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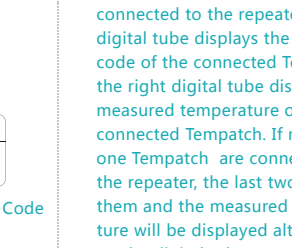
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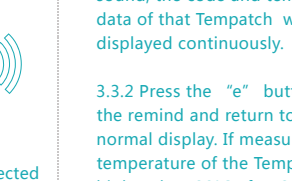
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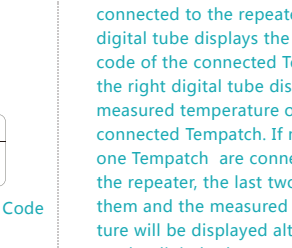
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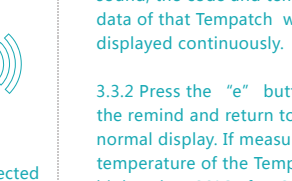
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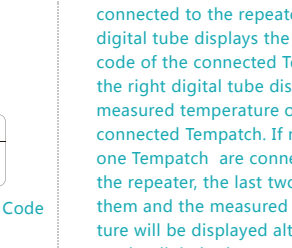
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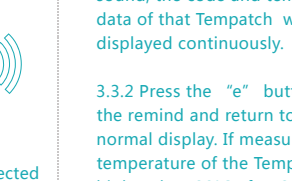
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