Radiance Instruments Ltd.

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PRODUCT SPECIFICATION

Product number: TMW022 Product name: **Signals** Versions: V1.1

Features:

- 4 Channel standalone BBQ/Oven Monitor.
- Uses Bluetooth for easy Wi-Fi Setup
- Can use either Bluetooth or Wi-Fi for monitoring.
- IP66 waterproof.
- High/low alarm setting.
- Loud alarm sound
- Lithium battery and power adapter

Specification:

Measuring range	-58 ~ 572 °F / -50 ~ 300°C
Temperature accuracy	±1.8°F(±1°C) between -4°F to 248°F（ -20 to 120°C） ±3.6°F(±2°C) between -58°F to -4°F / 248 to 392°F（-50 to -20 °C /120 to 200°C） ±5.4°F (±3°C) between 392~572°F(200 to 300°C)
Wireless distance	About 95 feet (29 meters) (it depends the mobile phone)
Display resolution	Current temperature 0.1°,alarm limit set 1°
Alarm sound volume	About 90dB (300mm distance)
Unit reading update	1 second
APP reading update	5 seconds
Water resistant rating	IP66
Power	Adapter power input and 1800mAh lithium battery
Battery life	About 15 hours
Battery recharge time	About 12 hours
Display size	101(W) X 48 (H) mm
Probe	Curved probe: 3.5(∅) x 150(L) mm, tip 2.2(∅) x 10(L) mm, cable length 1200mm. Straight probe: 3.5(∅) x 51(L) mm, cable length 1200mm.
Product size	132 (W) x 83(H) X 49(D)mm
Working temperature	Main part 32 ~ 122 °F/0 ~ 50 °C, cable 700°F/371°C, probe handle 644°F/340°C
Attachment	3 pieces curved probes, 1 piece straight probe, 1 piece air clip, 1 piece type C USB cable 2,000 mm length, 1 piece power adapter (100-240ACV input, 12VDC/1000mA output) .

Operation

1. Insert all the probes with the correct number. Connect the external power.
2. Press [☼] button to turn on the unit, the backlight will turn on 10 seconds.
3. Press [☼] button and hold for 3 seconds to turn off the unit.

Select temperature unit

Press [☼] button and hold for 5 seconds with the unit turn off to change the temperature unit.

Low and high temperature alarm setting

1. Press [CH] button to select the channel for alarm setting. All the icons flashing that you selected.
2. Press [SET] button to enter alarm on-off setting. Press [▼] or [▲] button to set the alarm on or off.
3. Press [SET] button once again to enter high alarm limit setting mode, high alarm value will be flashing. Press [▼] or [▲] button to set the high alarm limit.
4. Press [SET] button once again to enter low alarm limit setting mode, low alarm value will be flashing. Press [▼] or [▲] button to set the low alarm limit.
5. Press [SET] button once again to finish the alarm setting.
6. If the temperature reading is out of the limited, the alarm will sound, the “LOW ALARM” or “HIGH ALARM” icon flash. Press any key to stop the alarm sound, the low alarm or high alarm icon will be flashing continue.
7. Alarm sound: the channel 1 alarm sound is “di - - -“, the channel 2 alarm sound is “di di - -“, the channel 3 alarm sound is “di di di -“, the channel 4 alarm sound is “di di di di “.
   * If the both alarms sound active, the last alarm sound will be instead the before one.
   * The default low alarm value is 32°F, the default high alarm value is 160°F,

Backlight control

1) Press [☼] or [☼] button to switch backlight on or off. The backlight will be turn on 20 seconds, and then turn off automatically.

Volume adjustment

1.Press [VOL] button to adjust the sound volume.

2. When the volume class is , it mean that the alarm sound is off.

3. When power up, the sound volume class is the third class.

APP function:

1. Bluetooth APP for reading the data, set alarm limited, set temperature unit, set WIFI SSID and password.
2. WIFI APP for reading the data.
3. While the data sending out, the icon or flash.

NOTE:

1. Clean the probe immediately with cleaning wipes after each measurement to avoid cross contamination.
2. Do not expose thermometer to temperatures over 50°C / 122°F or use in ovens, otherwise incorrect readings or damage to the thermometer may result.

ERROR SYMBOLS:

Symbol	Description	Action required
	Full battery	
	Icon flashing, charging battery	
	Low battery indication	Connect the power adapter to recharge
LLL.L	The reading is out of low range (-50°C)	Keep the measurement above low range
HHH.H	1) Sensor short circuit 2) The reading is out of high range (300°C)	1) Return the thermometer for repair 2) Keep the measurement below high range
NO PROBE	1.The sensor open circuit 2.The sensor probe is not connect	1) Return the thermometer for repair 2) Connect the sensor probe correctly

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment complies with the RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.
Ce matériel est complété par un dispositif de radioexposition de la radioactivité pour un environnement non réglementé. Ce matériel devrait être installé et se faire avec une distance de 20 centimètresEntre les radiateurs et votre corps.

This device complies with Industry Canada Licence-exempt RSSs. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.
Le présent appareil est conforme aux CNR d'Industrie Canada applicable aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Changes or Modifications not expressly approved by the party responsible could void the user's authority to operate this device.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a

residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.
If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
-- Reorient or relocate the receiving antenna.
-- Increase the separation between the equipment and receiver.
-- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-- Consult the dealer or an experienced radio/TV technician for help.

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