



# SMARTRO SC31B Digital Projection Alarm Clock with Weather Station Instruction Manual

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# SMARTRO

**SMARTRO SC31B Digital Projection Alarm Clock with Weather Station**



## Preface

Thanks for choosing this device from SMARTRO.

### Before Use

- Make sure to read the instruction manual carefully. This information will help you to familiarize yourself with your new device, to learn all of its functions and get advice in the event of problems.
- Following the instructions will prevent damage to your device.
- We shall not be liable for any damage that occurs as a result of not following these instructions.
- Please keep this instruction manual for future reference.

### Attention

- Please follow the instructions for operation.
- Please use the original or manufacturer specified attachments or accessories.
- To avoid safety hazards, do not disassemble the product.
- Do not place any items on top of the product that may damage it.
- Do not place the product near a water source or in a damp place.
- Please terminate use immediately upon damage, which is caused as a result of improper use or repair by a non-factory approved technician.
- Do not place the product in places that are exposed to direct sunlight and high temperatures such as a radiator, electric heater, stove, etc.

- Keep the product away from strong electromagnetic waves, strong static electricity, or moisture and condensation.
- Children below 10 years of age should be supervised by an adult when using this product.
- Clean your device with a soft damp cloth. Do not use solvents or scouring agents.

## **Package Content**

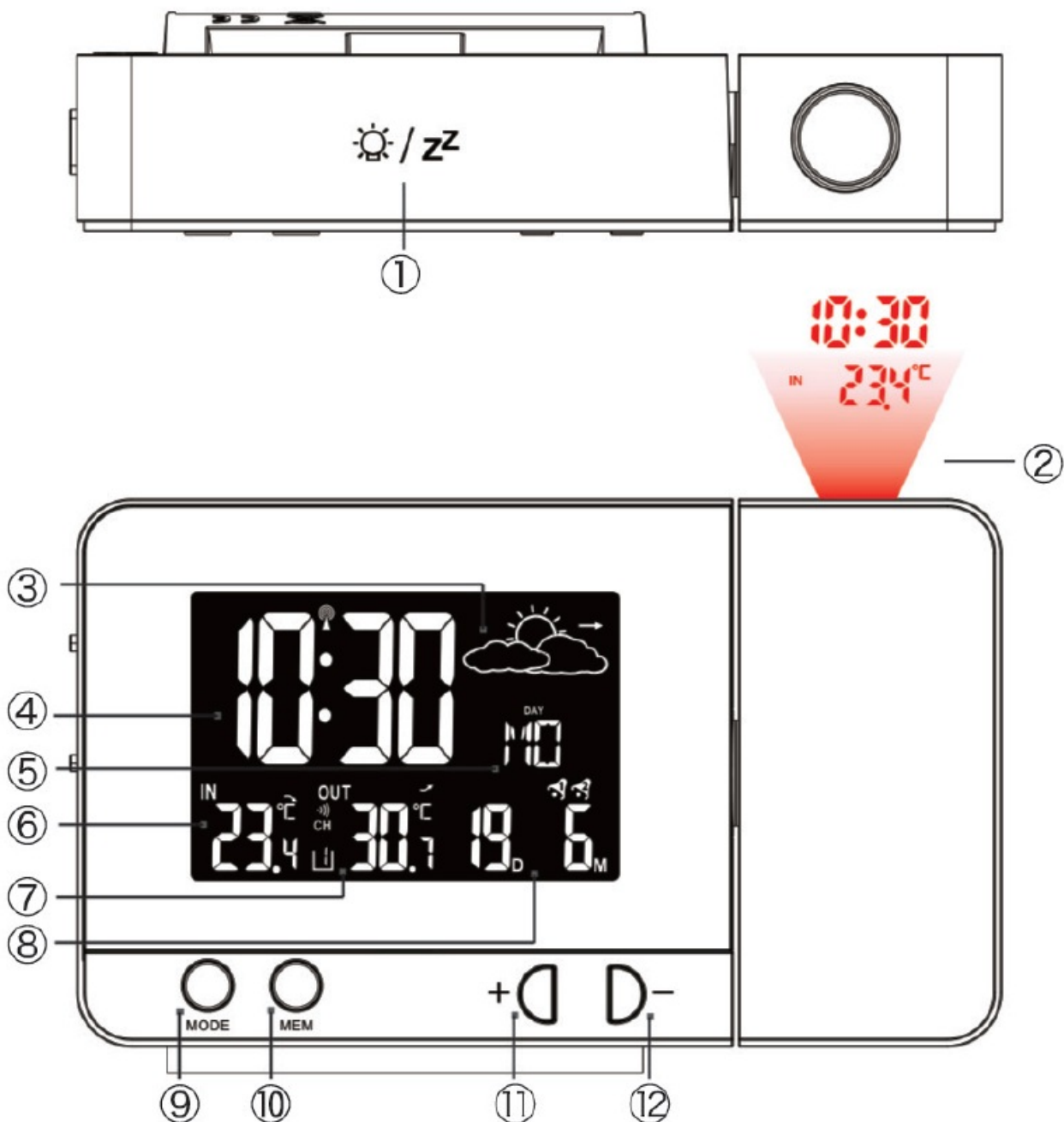
- Projection alarm clock
- Instruction manual
- DC power adapter
- Wireless remote sensor

## **Product Specification**

- Time and temperature projection
- Two alarms with snooze function
- Calendar (up to the year of 2099)
- 12/24 hour format alternative
- Multiple colors for backlit
- Temperature measuring range:  
Indoor temperature: -9.9°C ~ 50°C (14°F ~ 122°F) Outdoor temperature: -40°C ~ 70°C (-40°F ~158°F)  
Temperature displays in °C or °F
- Wireless remote sensor:  
Wall mounting or table stand  
200ft transmission range in an open area
- Weather forecast
- Battery:  
Clock: AAA battery x2  
Remote sensor: AA battery x2
- DC power adapter: 5V 1.2A
- USB charging output: 5V 1A

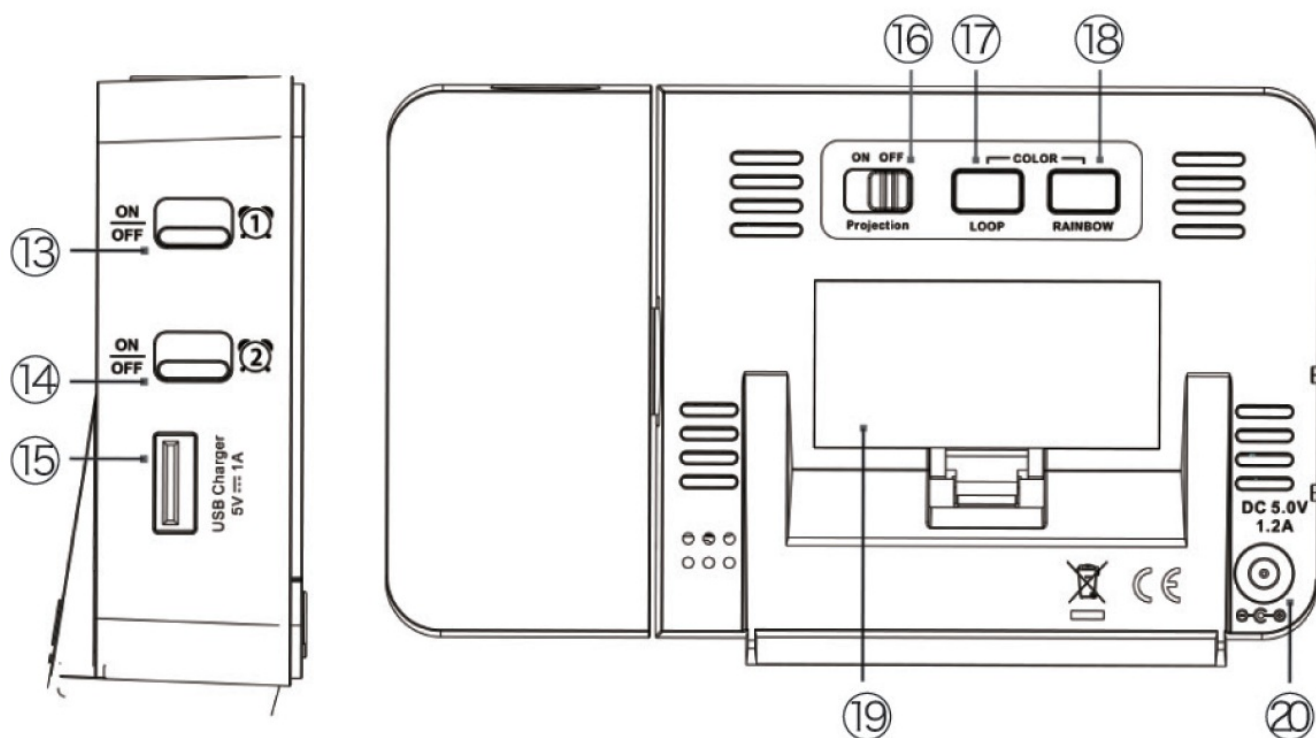
## **Know Your Device**

### **Buttons**

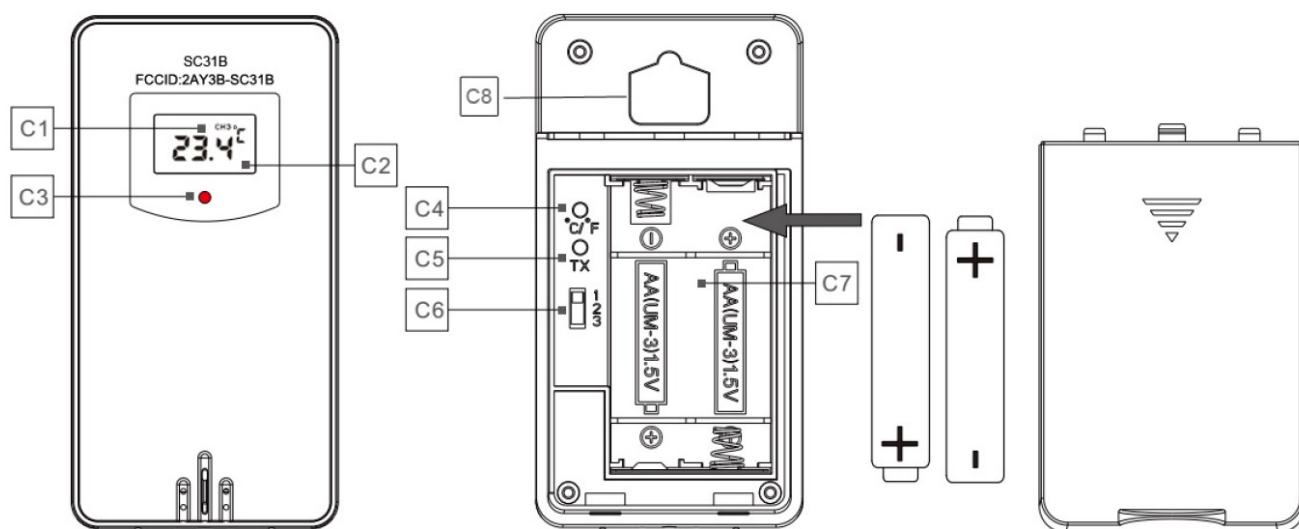


1. Snooze touch button
2. Projection display
3. Weather forecast
4. Time
5. Day of the week
6. Indoor temperature
7. Outdoor temperature
8. Month and date
9. "MODE" button
10. "MEM" button
11. "+" button
12. "-" button
13. Alarm 1 ON/OFF switch

14. Alarm 2 ON/OFF switch
15. USB charging port
16. Projection ON/OFF switch
17. "LOOP" button
18. "RAINBOW" button
19. Battery compartment
20. DC power interface



### Wireless Remote Sensor



- C1: Channel number  
 C2: Temperature  
 C3: Transmission signal light  
 C4: "°C/°F" button  
 C5: "TX" button

C6: Channel switch knob  
C7: Battery compartment  
C8: Wall-mount hole

## Preparation

- Open the clock battery compartment cover, insert 2 x AAA batteries, ensure correct battery polarities [ “+” and “-” ] and connect the DC adapter to power the clock.
- The screen will light up, and the device will make a beeping sound. The clock will start to detect indoor temperature.
- Open the wireless remote sensor battery compartment cover. Choose the same channel as the clock through the numbered knob. Insert 2 x AA batteries, ensure correct battery polarities [ “+” and “-” ].
- The sensor will send out a red light which means that it's sending signals to the main unit.
- The clock will start to make a connection with the outdoor remote sensor, a reception RF antenna symbol in the “OUT” display area will flicker on the screen. This procedure will take 3 minutes at most.
- After the unit has made a connection with the outdoor remote sensor, the detected temperature will be displayed on the screen.

## Manual Setting

- Long press “MODE” button, the Year display will be flashing. Press “+” or “-” button to set the year and press “MODE” button to confirm.
- The Month display will be flashing. Press “+” or “-” button to set the month and press “MODE” button to confirm.
- The Date display will be flashing. Press “+” or “-” button to set the date and press “MODE” button to confirm.
- The Month and Date symbol will be flashing. Press “+” or “-” button to choose Month/Date or Date/Month and press “MODE” button to confirm.
- The language abbreviation for the Day of the week will be flashing. Press “+” or “-” button to select a language and press “MODE” to confirm.

### Language abbreviations for reference:

Language	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
German, GE	SO	MO	DI	MI	DO	FR	SA
English, EN	SU	MO	TU	WE	TH	FR	SA
French, FR	DI	LU	MA	ME	JE	VE	SA
Italian, IT	DO	LU	MA	ME	GI	VE	SA
Spanish, SP	DO	LU	MA	MI	JU	VI	SA
Dutch, DU	ZO	MA	DI	WO	DO	VR	ZA
Danish, DA	SO	MA	TI	ON	TO	FR	LO

- 12Hr or 24Hr will be flashing. Press “+” or “-” button to choose 12Hr or 24Hr and press “MODE” to confirm.

- The Hour display will be flashing. Press “+” or “-” button to set the hour and press “MODE” to confirm.
- The Minute display will be flashing. Press “+” or “-” button to adjust minute and press “MODE” button to confirm the setting.
- The temperature unit °C or °F will be flashing. Press “+” or “-” button to choose the °C or °F and press “MODE” button to confirm.
- The weather forecast symbol will be flashing. Press “+” or “-” button to select the current weather pattern and press “MODE” to confirm and to end up the time setting.
- Short press “MODE” button to switch the display among the calendar, Alarm 1 and Alarm 2.

**Please take note of the following:**

- If there is no operation of buttons in 20 seconds, the clock will save the current settings and automatically return to the normal display.
- Any restart or power break will cause a loss of the previous manual settings, please insert batteries to the clock to keep the settings.

## **Alarm Function Setting**

### **Activate/Deactivate the Alarm Function**

- When the switch of alarm 1 or alarm 2 is moved to the “ON” position, the symbol of appears on the LCD display. The alarm function will be activated.
- When the switch of alarm 1 or alarm 2 is moved to the “OFF” position, the symbol of disappears. The alarm function will be deactivated.

### **Manual Setting of the Alarm**

- Long press “MEM” button, the hour display of Alarm 1 will be flashing. Press “+” or “-” button to set the hour and press “MEM” button to confirm the setting.
- The minute display of the Alarm 1 will be flashing. Press “+” or “-” button to set the minute and press “MEM” button to confirm the setting.
- The hour display of the Alarm 2 will be flashing. Press “+” or “-” button to set the hour and press “MEM” button to confirm the setting.
- The minute display of the Alarm 2 will be flashing. Press “+” or “-” button to set the minute. Press “MEM” button to confirm the setting and end the manual setting procedure.

**Please take note of the following:**

The clock will automatically switch from setting mode to normal mode if no button is pressed within 20 seconds.

### **Turn off the Alarm Tone**

Alarm tone will automatically turn off after 2 minutes or you can press any button except the ” ” to turn off the alarm tone. The alarm will repeat automatically at the same time on the next day.

### **Snooze Function**

- You can activate the snooze function by touching the " " when the alarm is ringing. The symbol of will keep flashing, then alarm will ring again in 5 minutes.
- Under the snooze function activated status. Press any button except the " " to turn off the snooze function.
- If an alarm is in snooze function, the other alarm rings, the snooze function of the former alarm will automatically be stopped.

**Please take note of the following:**

- The alarm will keep ringing for 2 minutes if you do not deactivate it by pressing any button. In this case the alarm will repeat automatically after 24 hours.
- The ring of the alarm changes 4 times in total during the past 2 minutes.

## **Projection Setting**

Note: Switch on the projection button for further operation.

### **Temporary Time & Temp Projection**

When the clock is only powered by batteries (not included), touching will light up the projection for a few seconds, then the projection will turn out automatically.

### **Permanent Time & Temp Projection**

- When the clock is powered by power adapter, the projection will always light up.
- Long press "-" button to adjust the projection angle by 180°.
- The suggested distance for the projection is 5 ~ 13 ft (1.5 ~ 4 m). When there is no light at night, the clock can clearly display the time and temp onto the wall or ceiling.
- If you want to turn off the projection, switch off the button on the back.

**Please take note of the following**

The power of old batteries is not enough to support the display, please connect the adapter or replace new batteries as soon as possible.

## **Backlit**

### **Backlit Dimmer**

- When the clock is only powered by batteries, touching " will light up the backlit for a few seconds.
- When the clock is powered by DC power adapter, the battery will automatically disconnect with the power supply, and the backlit will always be on.
- Press "-" button to adjust 4 levels of brightness: light – medium -low – out.

**Please take note of the following:**

The power of old batteries is not enough to support the display, please connect the adapter or replace new batteries as soon as possible.

## **Multiple Color Backlit**



- When the clock is connected with the power adapter, press "LOOP" button once, the backlit will change the color gradually. When it comes to the color you want, press "LOOP" again to confirm it.
- Press and hold "LOOP" button for more than 2 seconds, the color of backlit will change fast. Release "LOOP" button when you have selected your favorite color.
- When the backlit is on, press "RAINBOW" button to change the color. There are 8 colors available: white, red, orange, yellow, green, cyan, blue, and purple.

## Wireless Remote Sensor Pairing

### Step 1:

- Connect the clock with the adapter.
- Insert 2 x AA batteries to the wireless remote sensor.

### Step 2:

- Select a channel through the numbered knob for the wireless remote sensor. The indicator will light up once to indicate the detected temperature and humidity were sent out by wireless remote sensor.
- Press "+" to select a channel for the clock that corresponds to the wireless remote sensor. The reading will display on the clock within a min.
- If the clock fails to receive signals from wireless remote sensor ("- -" will be displayed on the LCD), please make sure the channels of the clock and sensor are same. Then long press "+" button to receive the signals manually. The reading will show up in a minute.

### Please take note of the following:




The clock can connect up to 3 wireless remote sensors at the same time. If multiple wireless remote sensors are used simultaneously, please set them on the different channels.

## Temperature

### Temperature Display and Temperature Trend

- The current indoor temperature and the temperature trend (indoor) are shown on the LCD display.
- When connected with the wireless remote sensor successfully, the outdoor temperature and the temperature trend (outdoor) will appear on the LCD display.

You may see the following symbols:

-  The temperature is rising.
-  The temperature remains constant.
-  The temperature is falling.

### Maximum/Minimum Temperature Records

- To check the maximum, minimum temperature of indoor/outdoor, press the “MEM” button.
- Press “MEM” button once to see the maximum temperature values.
- Press “MEM” button twice to see the minimum temperature values.
- Press “MEM” button three times to return to the current temperature values.
- To reset the maximum and minimum temperature values, press and hold the “-” button for more than 2 seconds when checking the maximum/minimum temperature. “—” will be displayed in both indoor and outdoor temperature columns, which indicates that the maximum and minimum temperature records were reset successfully.

**Please take note of the following:**

If the temperature reading is below the lowest measuring range,

**LL.L will be displayed.**

If the temperature reading is above the highest measuring range, HH.H will be displayed.

**Outdoor Temperature Frost Alarm**







When the outdoor temperature is between  $-1^{\circ}\text{C} \sim 3^{\circ}\text{C}$  ( $30^{\circ}\text{F} \sim 37^{\circ}\text{F}$ ), the frost alarm function will be activated and a flashing “ ” symbol will be displayed on screen.

**Weather Forecast**

**Weather Forecast Statement**

- The clock weather station calculates weather forecast for the next 12 hours based on the barometric pressure trend.
- The clock weather forecast can’t be compared with the professional weather services supported by satellites and high performance computers. It provides an approximate indication of current developments.
- Please take the weather forecast from local weather station as authoritative.

**The Symbols of Weather Forecast**

					
sunny	slightly cloudy	cloudy	rainy	heavy rainy	snowy

**Barometric Pressure Trend**

The weather station can display the barometric pressure trend. You may see the following symbols:



The barometric pressure will rise.





The barometric pressure will remain constant.



The barometric pressure will fall.

### Low Battery

- If the LCD display shows a symbol of  in “IN” column, please replace the batteries for the clock as soon as possible.
- If the LCD display shows a symbol of  in “OUT” column, please replace the batteries for the wireless remote sensor as soon as possible.

### USB Charger

When the clock is powered by DC power adapter, the USB socket can be used for charging smart phone or other devices.

### Troubleshooting

PROBLEM	COUNTERMEASURE
No projection	<ol style="list-style-type: none"> <li>1. Switch the projection button on the back to ON state.</li> <li>2. Connect the clock with DC power adapter.</li> </ol>
Projection not clear.	<ol style="list-style-type: none"> <li>1. Keep the projection distance to 5~13ft (1.5 ~ 4m).</li> <li>2. The projection is only visible in a dark environment.</li> </ol>
Projection image is upside down.	Long press “-” button to adjust the angle by 180 degrees.
Projection or the backlit does not stay on continuously.	Connect the clock with the DC power adapter.
Backlit is too bright or too dark.	Press “-” to adjust 4 brightness levels: light – medium – low – out.
Can't receive the outdoor temperature.	<ol style="list-style-type: none"> <li>1. Replace battery for outdoor remote sensor.</li> <li>2. Make the channels of the clock and outdoor remote sensor same (refer to the manual on page 13: <b>11.Wireless Remote Sensor Pairing</b> ).</li> <li>3. Long press “+” button to receive the signals manually.</li> </ol>
Fuzzy projection / Missing pixels projection image / USB charger does not work/ Have trouble with manual setting.	Contact after-sales service. Email: <a href="mailto:support@smartro.co">support@smartro.co</a> Phone Number: 323-287-5798


### After-sales Support

If your device fails to work despite these measures or your experience with us was less than perfect in any way, please do not hesitate to contact us.

For more products, please visit our website: <https://www.smartro.co/> For further support and discount information, join our Facebook group or follow us on Instagram.

- +1(323)287-5798
  - [support@smartro.co](mailto:support@smartro.co)
  - [http://bit.ly/smartro\\_01](http://bit.ly/smartro_01)
  - smartro\_01
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## Documents / Resources

	<p><a href="#">SMARTRO SC31B Digital Projection Alarm Clock with Weather Station</a> [pdf] Instruction Manual</p> <p>SC31B Digital Projection Alarm Clock with Weather Station, SC31B, Digital Projection Alarm Clock with Weather Station, Projection Alarm Clock with Weather Station, Alarm Clock with Weather Station, Weather Station, Station</p>
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## References

- [Log into Facebook | Facebook](#)
- [Meat Thermometers and Outdoor Thermometers | SMARTRO](#)
- [Meat Thermometers and Outdoor Thermometers | SMARTRO](#)
- [User Manual](#)