



User Manual

RV Tire Pressure Monitoring System

Model: AM100

Functional descriptions in this manual are subject to change without notice.

AOMOSUR

Contents

Product Introduction	1
Accessories	2
Display Installation	3
Sensor Installation	4
Display Interface and Buttons	5
Interfaces Overview	6
Button Operation Overview	7~8
Main Interface and Operations	9
Pairing Interface and Operations	10
Menu Interface and Operations	11
Setting Interface and Operations	12
Function Description for Settings	13~17
Alerts and Solutions	18~19
Switch Between Car Mode and RV Mode	20
Maintenance and Care	21
Troubleshooting	22~24
Sensor Battery Replacement	25
Technical Specifications	26
Product Specifications	27
Warranty	28

Product introduction

Features:

Large Color Display: Crystal-clear 3.15" LCD color display provides an intuitive and easy-to-read view of your tire pressure and temperature data.

Real-Time Alerts: Receive instant visual, audible, and text alerts for low pressure, high pressure, high temperature, low sensor battery.

Effortless Installation: Quick-release magnetic mount allows for easy installation and portability without cluttering your dash.

Customizable Monitoring: Supports up to 10 sensors, covering 4 towing vehicle tires, 4 RV tires, and 2 spares, ensuring comprehensive coverage for your entire rig.

Versatile Configurations: Available with 2, 4, 6, or 8 sensors (0-108 PSI range) to perfectly match your vehicle and specific needs.

Description:

Gain peace of mind and enhance your safety on the road with our advanced Tire Pressure Monitoring System (TPMS). Featuring a crystal-clear 3.15" LCD color display, this system provides real-time monitoring of your tire pressure and temperature, helping you prevent blowouts, improve fuel efficiency, and extend the life of your tires.


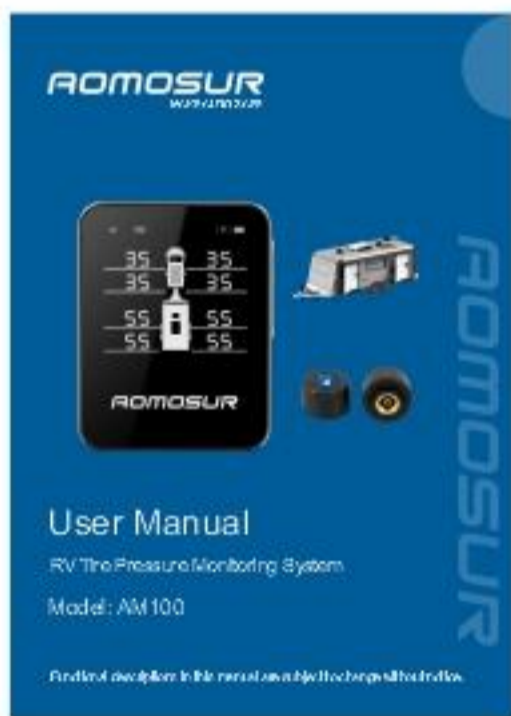
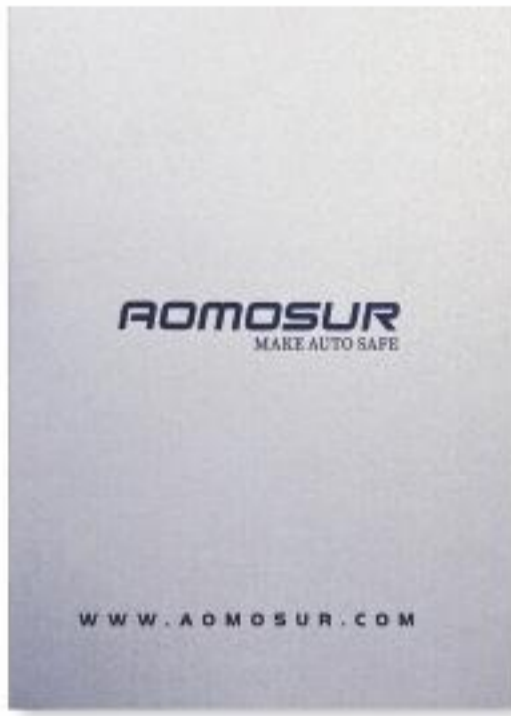







Receive instant visual, audible, and text alerts for a range of issues, including low pressure, high pressure, high temperature, low sensor battery. The quick-release magnetic mount allows for effortless installation and portability without cluttering your dashboard. With support for up to 10 sensors, you can monitor your towing vehicle, RV, and even spare tires. Choose from configurations with 2, 4, 6, or 8 sensors to perfectly match your vehicle and requirements.

The system supports a pressure range of 0-100 PSI, making it compatible with a wide variety of vehicles, from cars and trucks to trailers and RVs. The display unit features a long-lasting, rechargeable 1000mAh lithium battery and convenient Type-C charging. Enjoy easy setup and hassle-free monitoring on every journey.

Accessories

*** Please note: Additional accessories are located underneath the blister packaging.**

Kindly lift the blister to find them

			
3.15" LCD Display	User Manual	Warranty Card	
			
Toolkits	Magnetic Mounting Bracket	Type-C Power Cord (1.5m)	
Model 1: AM100-II	Model 2: AM100-IV	Model 3: AM100-VI	Model 4: AM100-VIII
			
2 Sensors	4 Sensors	6 Sensors	8 Sensors

If any accessory missing after opening the box, please kindly contact us for help instead of retraining it.

Display Installation



1. Mount the magnetic holder securely to the air vent.
2. Attach the display and connect the Type-C power cable.
3. Power it on before install the sensors

Sensor Installation

01 Device Initialization

Power on the display screen and wait for the device to complete its self-check (approximately 20 seconds) before proceeding with the sensor installation.

02 Sensor Installation Guidelines

Align the sensor with the tire valve stem and screw it in clockwise at a steady pace. If you hear a hissing sound indicating air leakage during installation, immediately stop and hold the current angle for 3 seconds. Once the air pressure stabilizes, continue tightening until it is fully sealed.



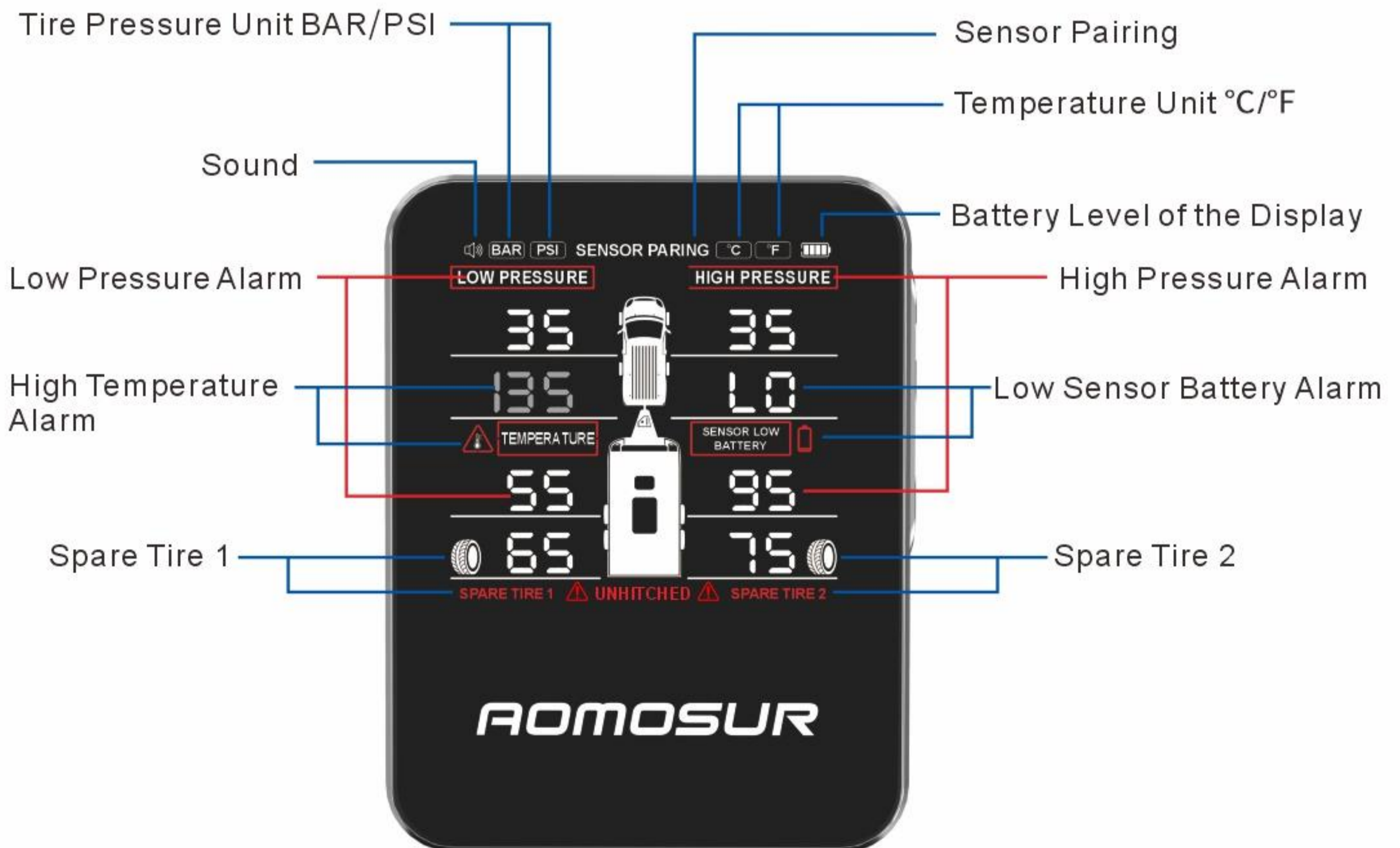
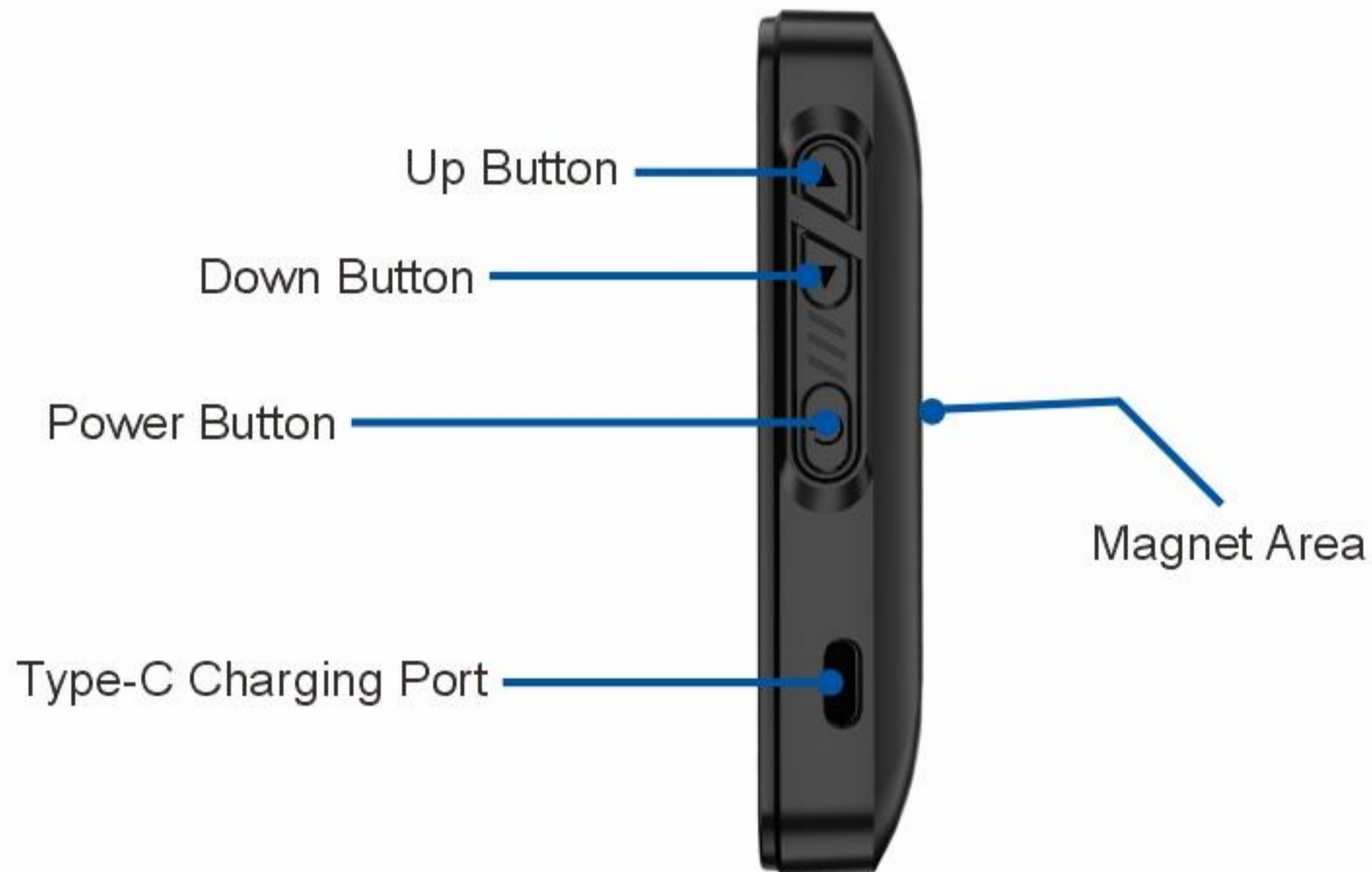
03 Signal Detection and Calibration

After installation, check whether the display screen shows the corresponding tire pressure data. If the signal is not detected, unscrew the sensor counterclockwise, wait for 10 seconds, and then repeat the sensor installation steps.

04 Notes:

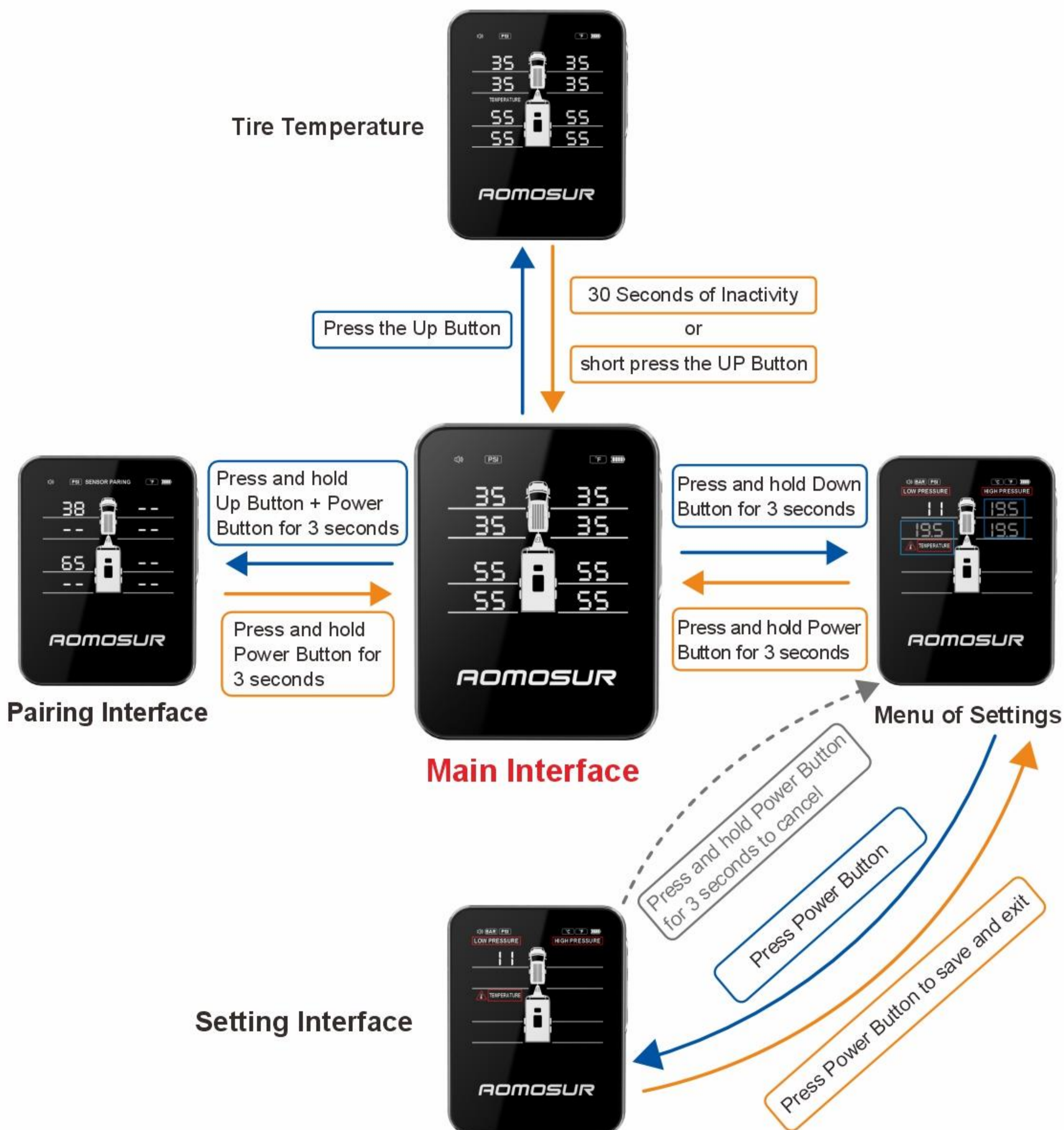
The sensor must fit snugly against the valve stem to prevent abnormal tire pressure due to leaks. When reinstalling, make sure to perform the action gently to avoid damaging the threads. If you are still unable to read data after three consecutive attempts, please contact technical support. Note: After installation, please inflate the tire to the normal pressure. You can visit a nearby repair shop or use your own inflation equipment.

Display Interface and Buttons

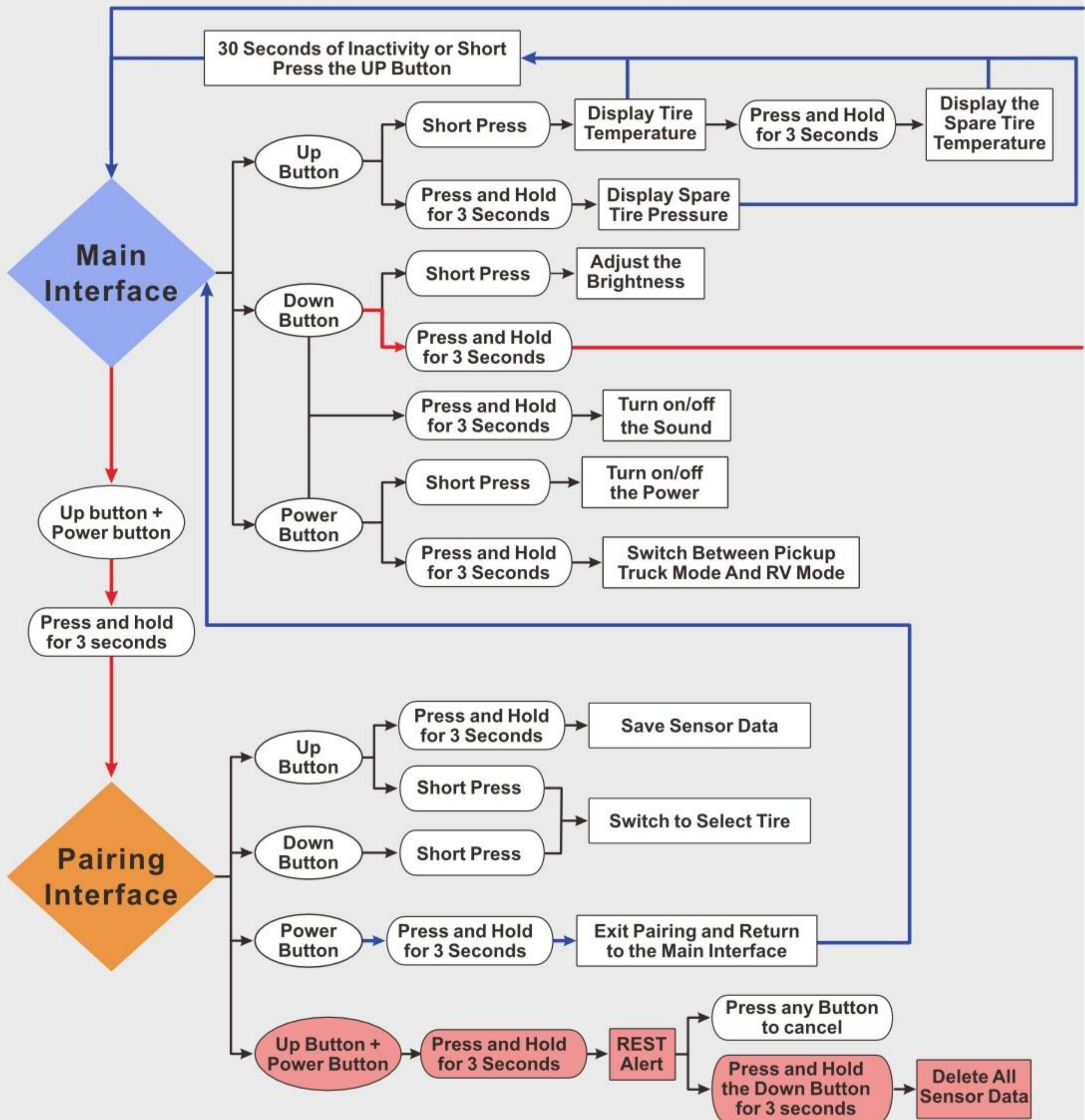


Interfaces Overview

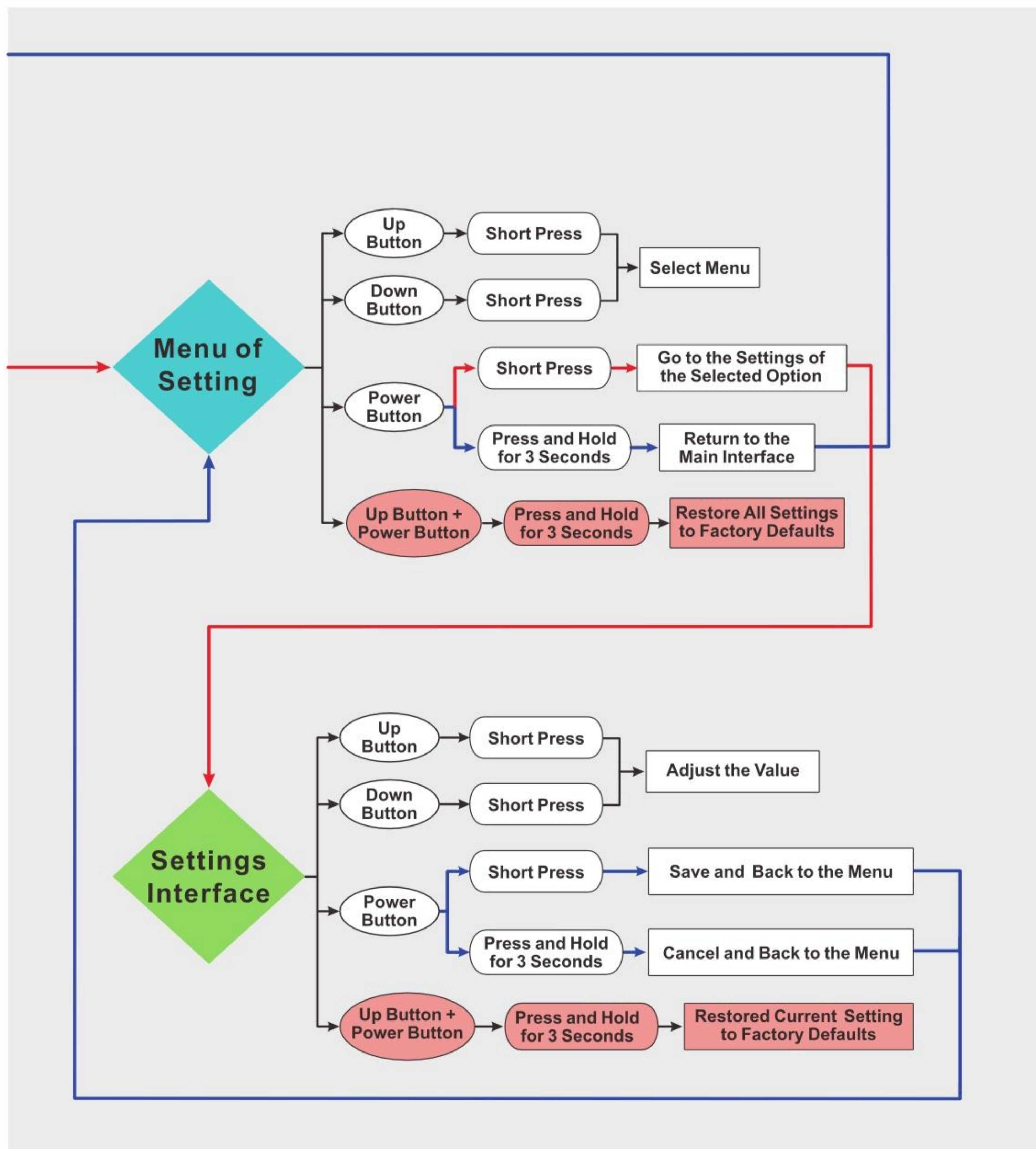
Navigating between the 5 interfaces



Button Operation Overview

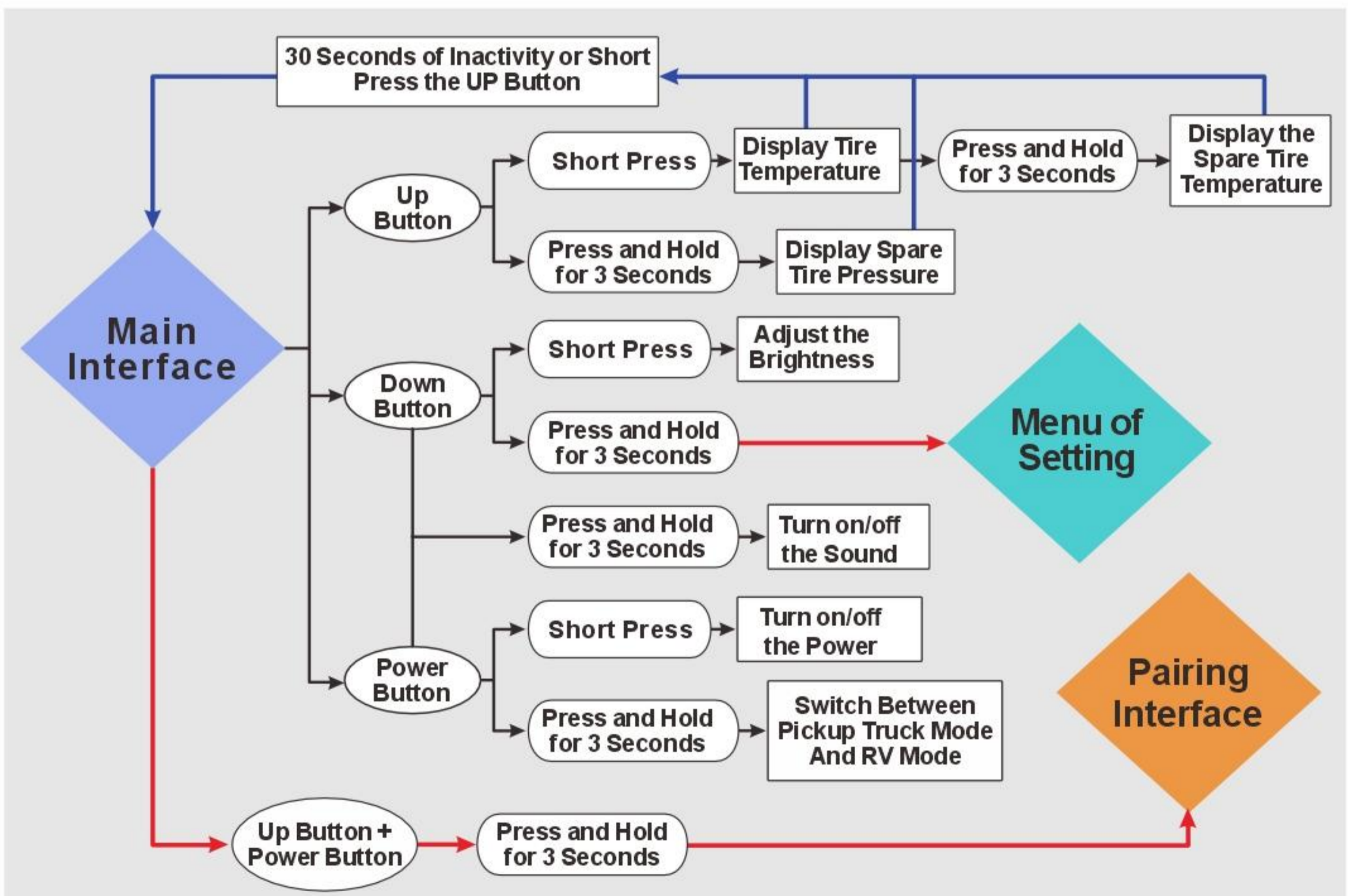
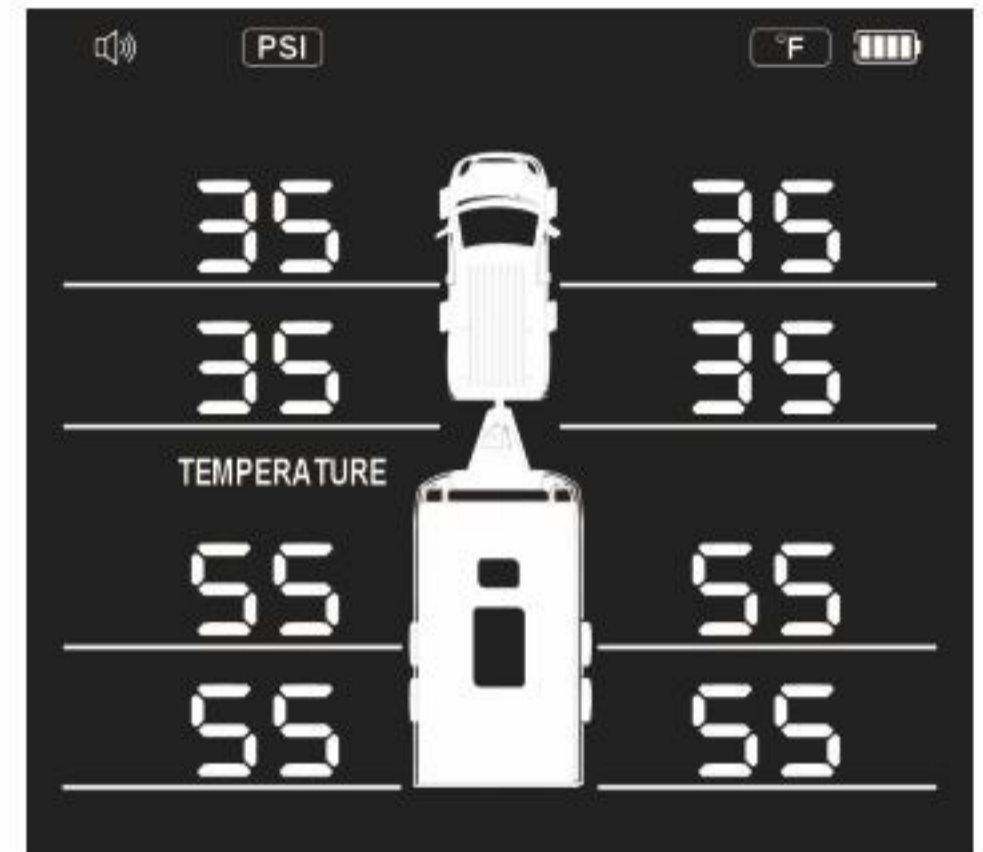


Button Operation Overview



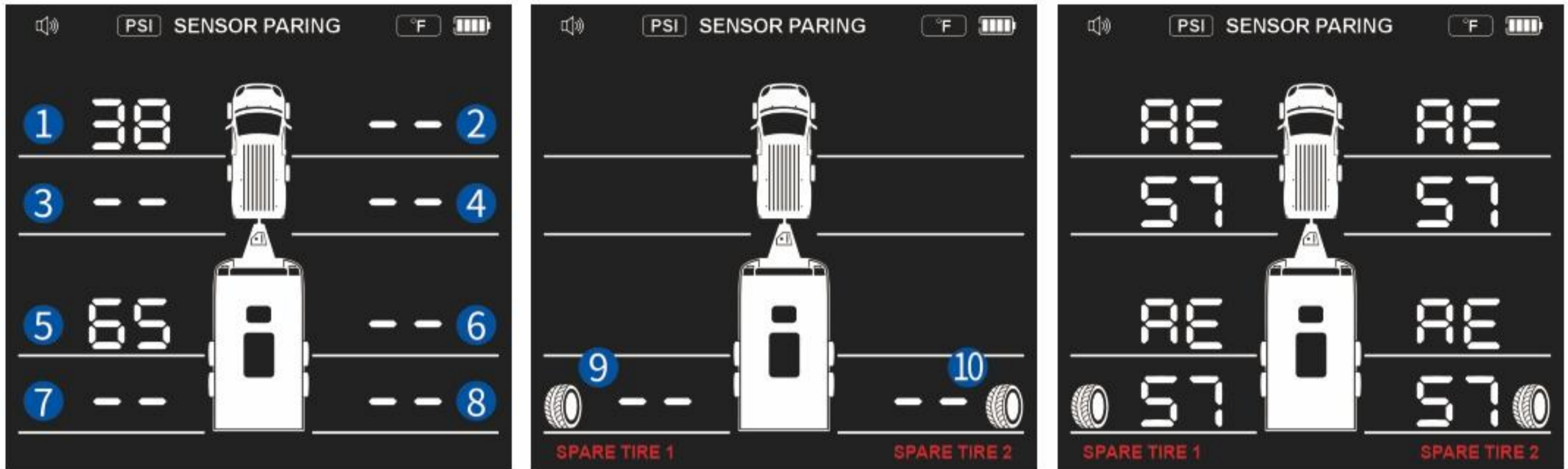
Main Interface and Operations

1. Short press (Up Button): Toggles the display to show tire temperature. After toggling, a long press (Up Button, 3s) displays the spare tire temperature. Another short press (Up Button) or waiting 30 seconds will return the display to tire pressure -the main interface.
2. Long press (Up Button, 3s): Displays spare tire pressure.
3. Short press (Down Button): Adjusts screen brightness.
4. Long press (Power & Down Button, 3s): Turns sound on/off.
5. Long press (Down Button, 3s): Enters the settings menu.
6. Short press (Power): Powers the device on/off.
7. Long press (Up & Power Button, 3s): Enters pairing mode.
8. Long press (Power Button, 3s): Switch between pickup truck mode and RV mode

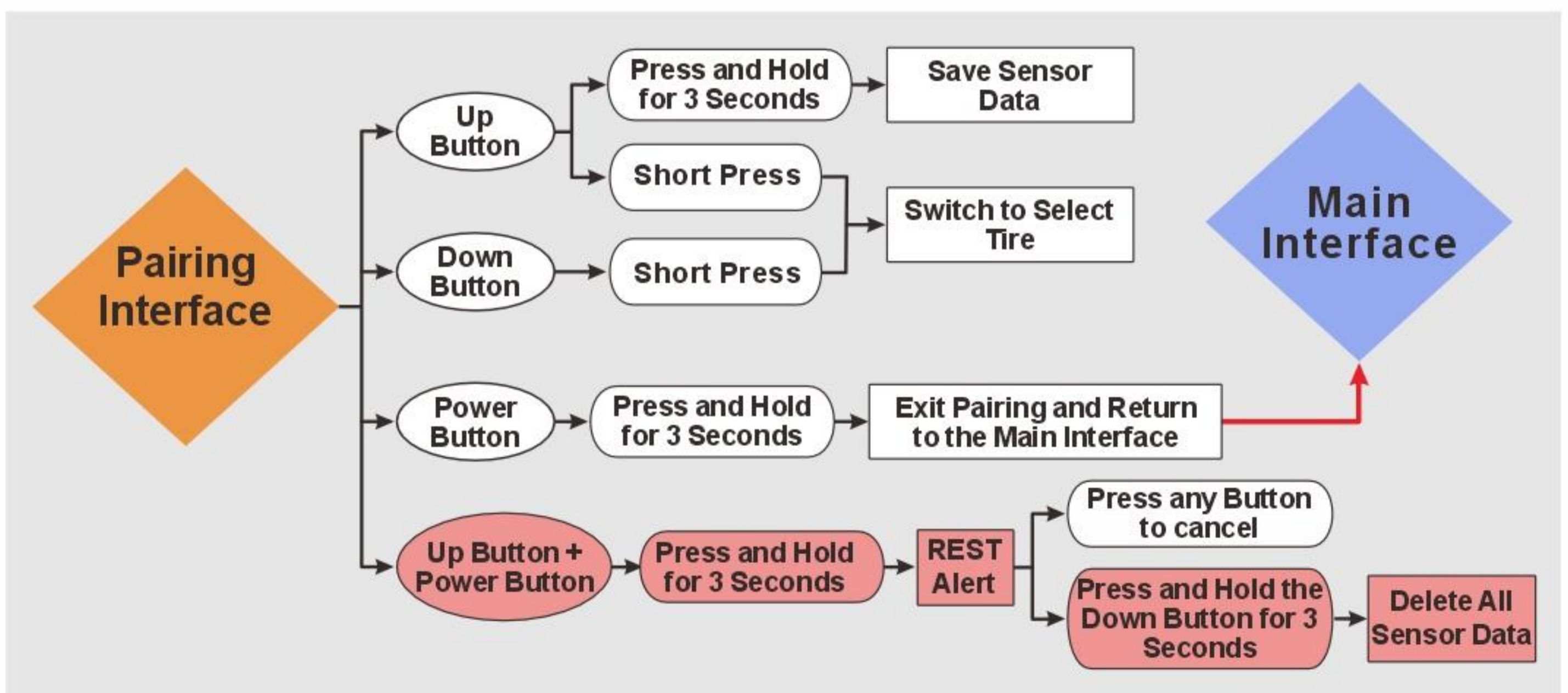


Pairing Interface and Operations

1. Press and hold the Up button and the Power button simultaneously for 3 seconds to enter the Sensor Pairing Interface
2. Short press (Up/Down): Cycles through tire positions. There are a total of 10 tire positions (as shown in the diagram).



3. Default Selection: Tire position 1 is selected by default. After screwing on the sensor, the tire pressure value is displayed. A long press (Up Button, 3s) saves the data for that tire position.
*This operation will overwrite any existing sensor data. Please proceed with caution.
4. Long press (Power Button, 3s): Exits pairing mode and returns to the main interface.
5. Long press (Up & Power Button, 3s): Displays "REST"(RESET) Pressing any button to cancels this operation. A long press (Down Button, 3s) confirms and clears all sensor data.



Menu Interface and Operations

Press and hold the Down Button for 3 seconds to enter the Menu

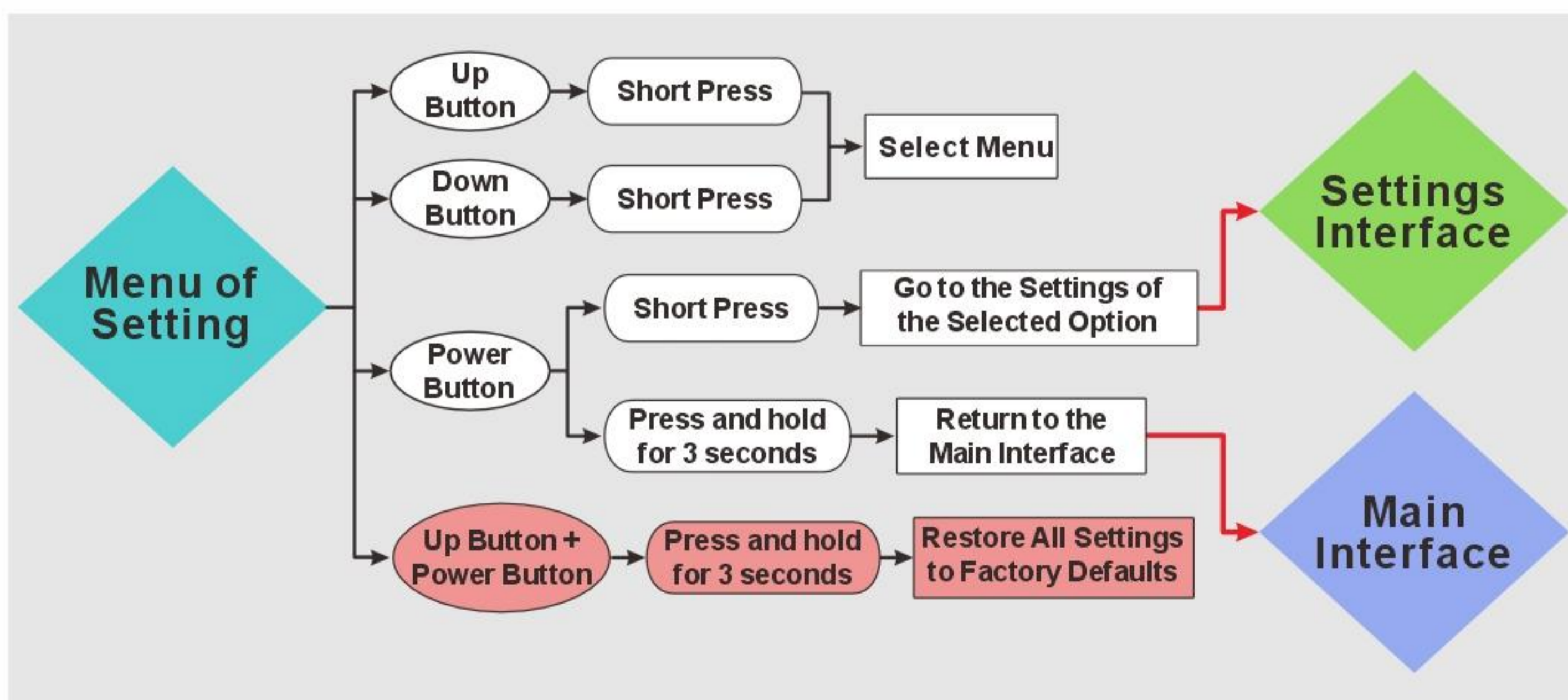
1. Short press the Up/Down Button to select the target setting.

- 01: Pressure Unit
- 02: Temperature Unit
- 03: Low Pressure Alarm - Tow Vehicle
- 04: Low Pressure Alarm - RV/Trailer/Caravan
- 05: Low Pressure Alarm - Spare Tire 1
- 06: Low Pressure Alarm - Spare Tire 2
- 07: High Pressure Alarm - Tow Vehicle
- 08: High Pressure Alarm - RV/Trailer/Caravan
- 09: High Pressure Alarm - Spare Tire 1
- 10: High Pressure Alarm - Spare Tire 2
- 11: High Temperature Alarm - Tow Vehicle
- 12: High Temperature Alarm - RV/Trailer/Caravan
- 13: High Temperature Alarm - Spare Tire 1
- 14: High Temperature Alarm - Spare Tire 2
- 15: Display Software Version

2. Briefly press the Power Button to confirm and access the selected setting.

3. Press and hold the Power Button for 3 seconds to return to the main menu.

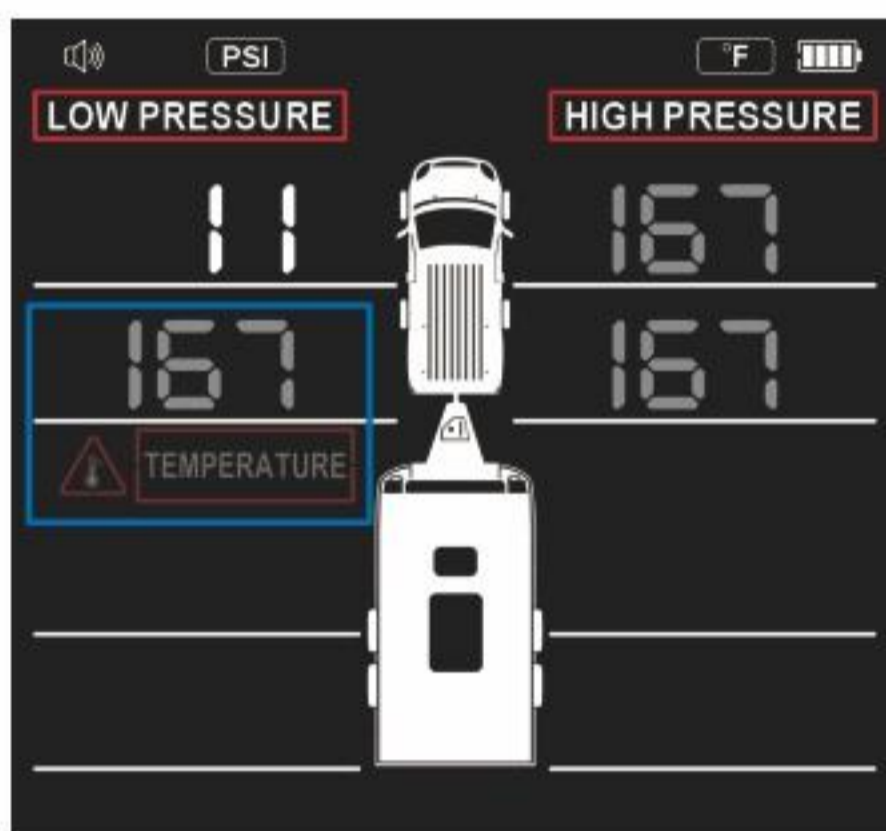
4. Press and hold the Up and Power Button for 3 seconds to restore all settings to factory defaults.



Setting Interface and Operations

In the settings menu, short press the Power button to enter the currently selected option's settings interface.

1. Short press Up/Down button to adjust the value.
2. Short press the Power Button to save return to the Menu. Press and hold the Power Button for 3 seconds to cancel and return to the Menu.

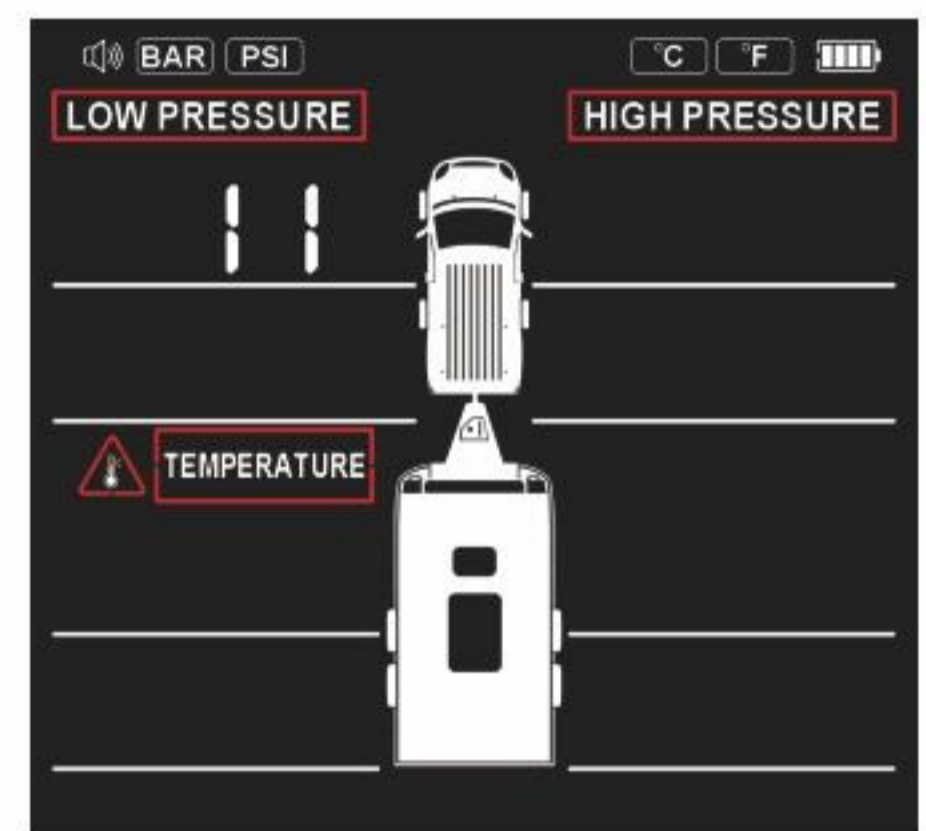


Setting interface

Press the power button to save the data and return to the Settings menu

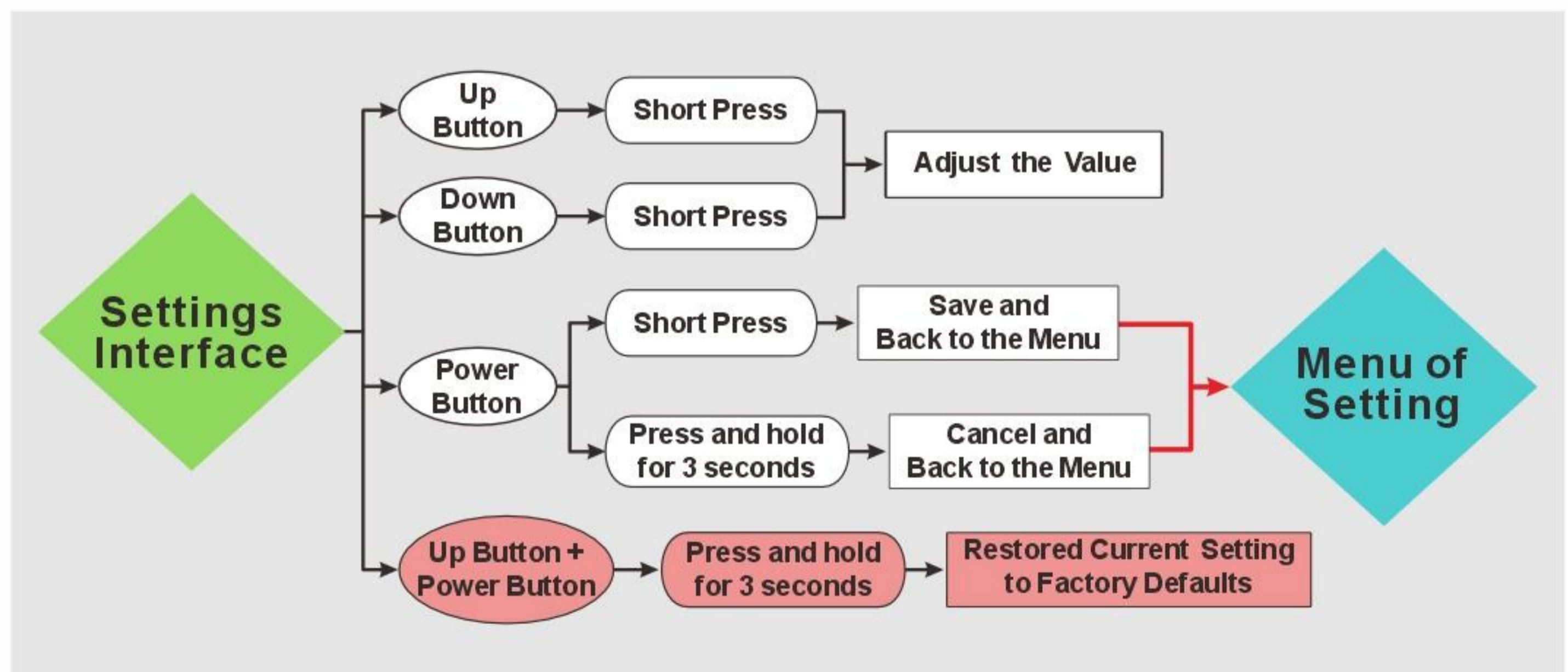


Hold down the power button for 3 seconds to cancel the current setting And return to the Settings menu interface



Setup menu interface

3. Press and hold the Up and the Power Buttons for 3 seconds to restore the current setting option to the factory default.



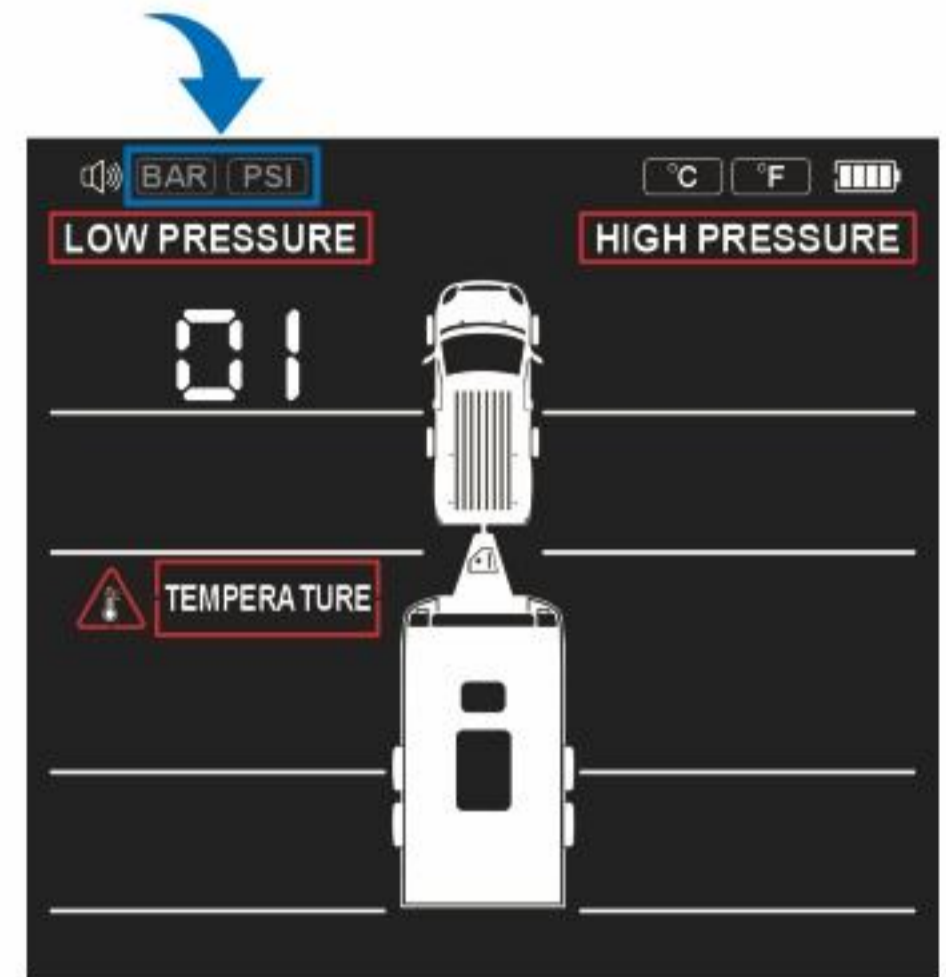
Function Description for Settings

1. Set the Tire Pressure Unit:

1. Select "01" in the settings menu.
2. Short press the Power button to enter the settings.
3. Short press the Up/Down buttons to select either PSI or BAR.

The selected option will blink continuously.

4. Short press the Power button to save your selection and return to the menu.
5. Press and hold the Power button for 3 seconds to cancel the setting and return to the menu.

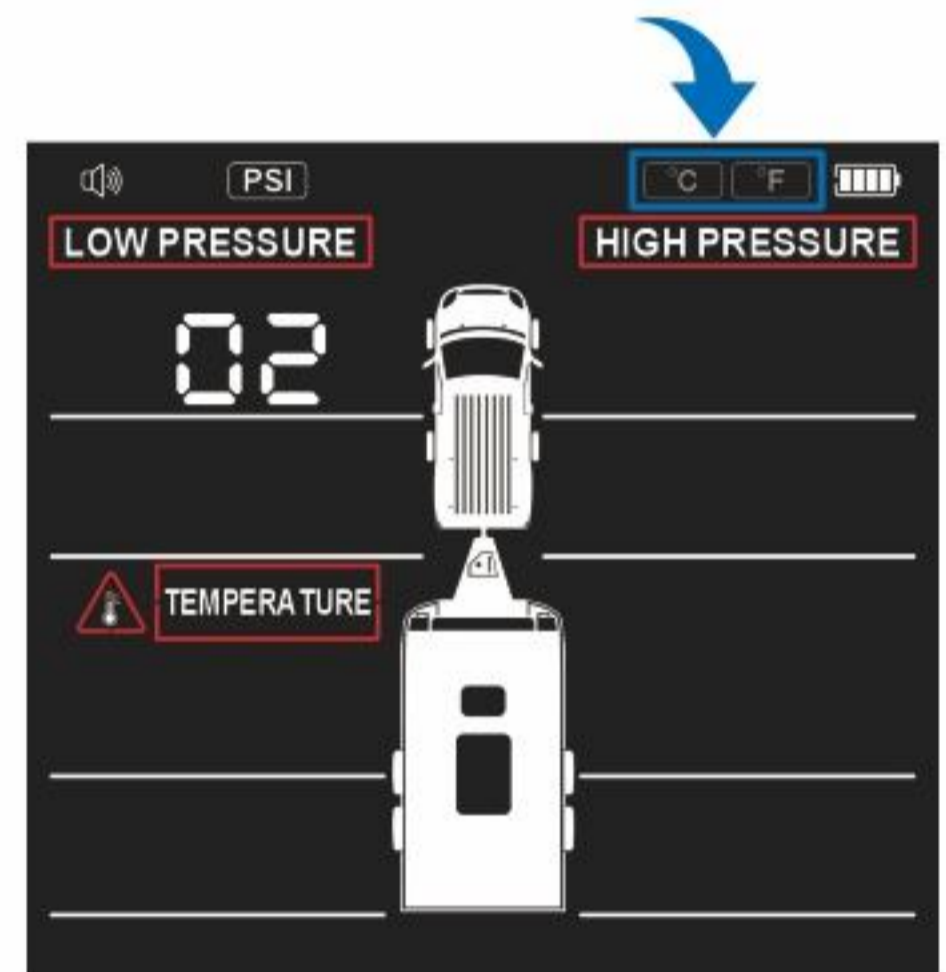


2. Set the Temperature Unit:

1. Select "02" in the settings menu.
2. Short press the Power button to enter the settings.
3. Short press the Up/Down buttons to select either °C or °F.

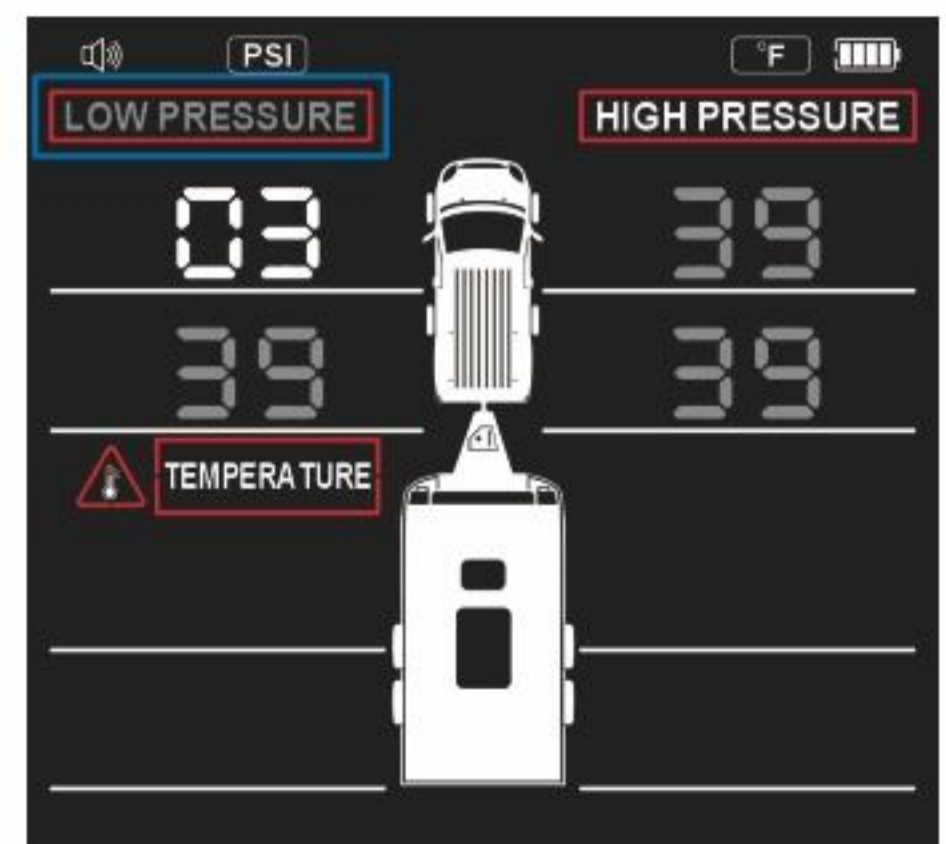
The selected option will blink continuously.

4. Short press the Power button to save your selection and return to the menu.
5. Press and hold the Power button for 3 seconds to cancel the setting and return to the menu.



3. Set the Low Pressure Alarm for the pickup trucks:

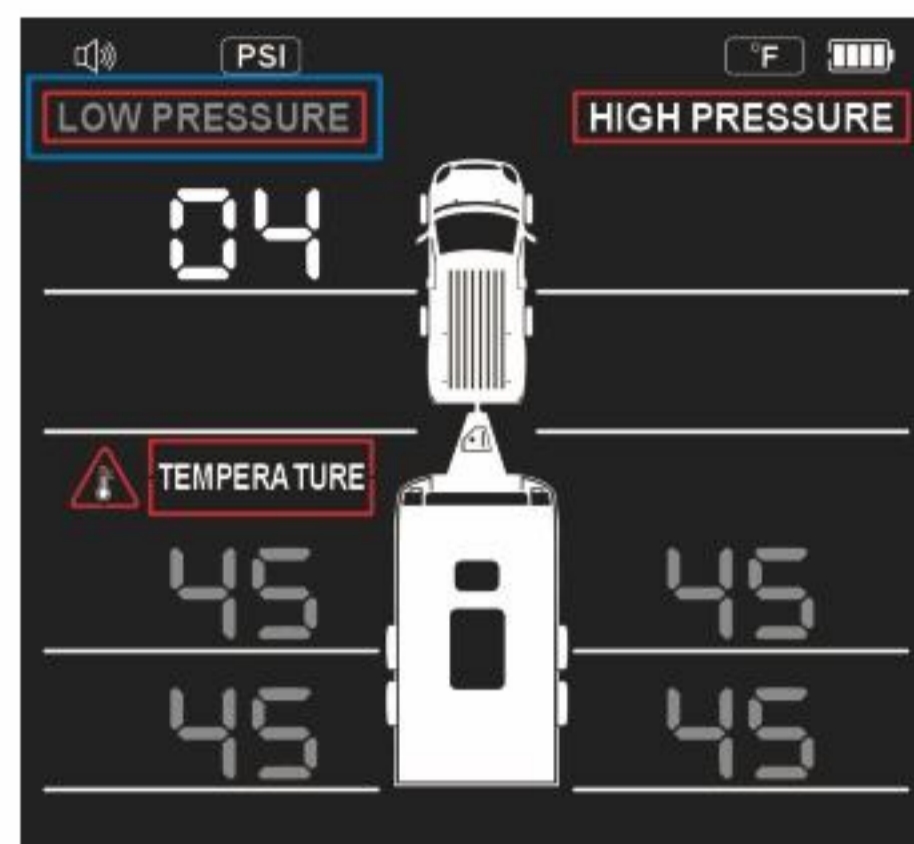
1. Select "03" in the settings menu.
2. Short press the Power button to enter the settings.
3. Short press the Up/Down buttons to adjust the value.
4. Short press the Power button to save and return to the Menu.
5. Press the power button for 3 seconds to cancel the setting and return to the menu.



Function Description for Settings

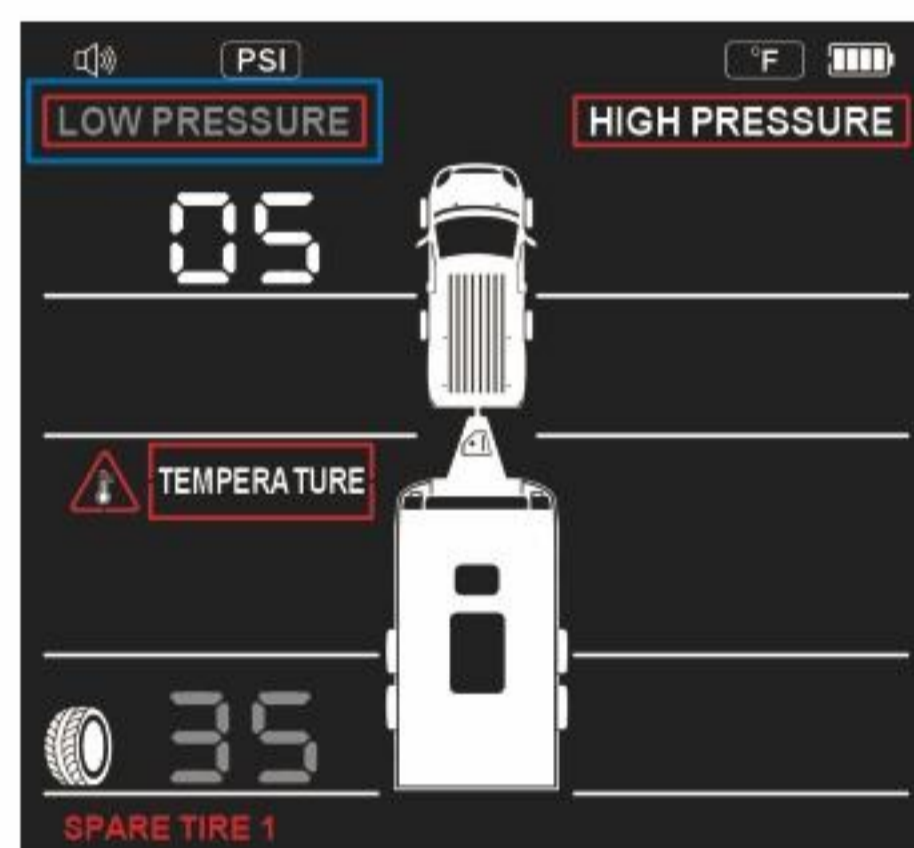
4. Set the Low Pressure Alarm for the RV:

1. Select "04" in the settings menu.
2. Short press the Power button to enter the settings.
3. Short press the Up/Down buttons to adjust the value.
4. Short press the Power button to save and return to the Menu.
5. Press the power button for 3 seconds to cancel the setting and return to the menu.



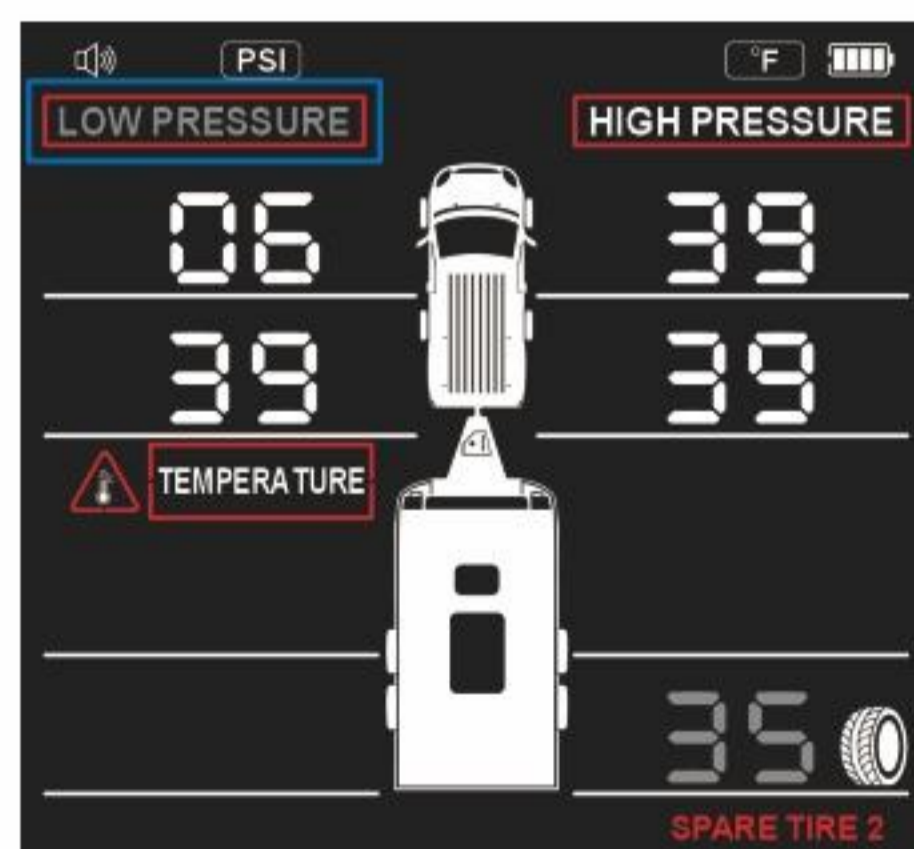
5. Set the Low Pressure Alarm for the Spare Tire 1:

1. Select "05" in the settings menu.
2. Short press the Power button to enter the settings.
3. Short press the Up/Down buttons to adjust the value.
4. Short press the Power button to save and return to the Menu.
5. Press the power button for 3 seconds to cancel the setting and return to the menu.



6. Set the Low Pressure Alarm for the Spare Tire 2:

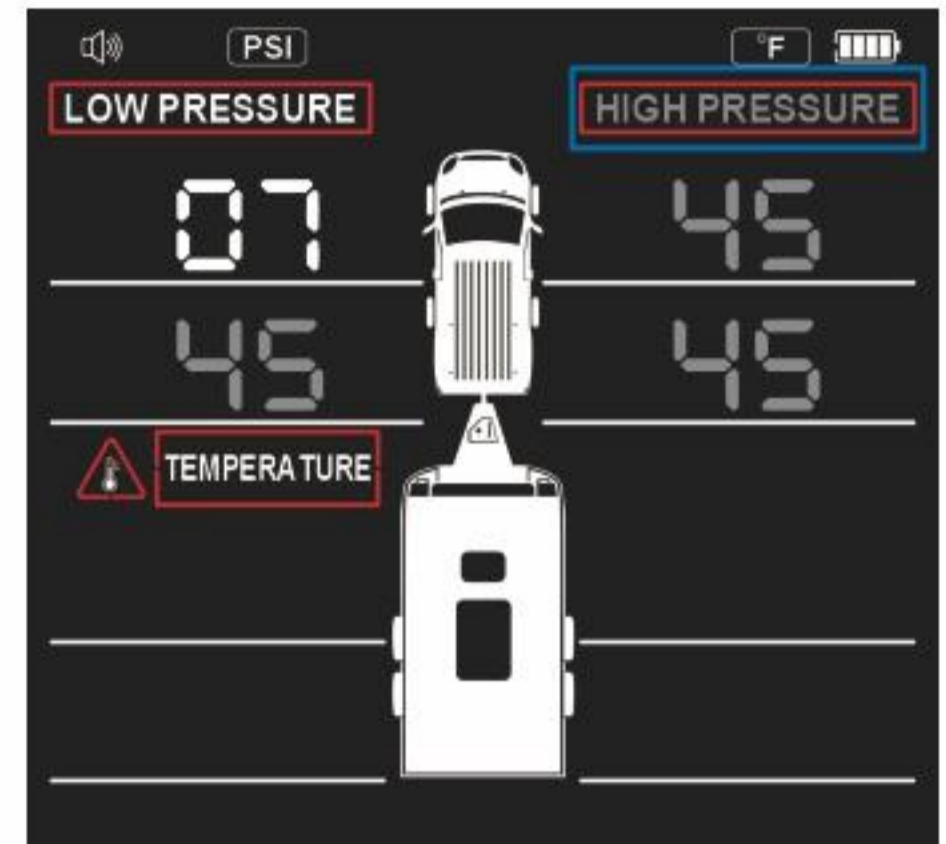
1. Select "06" in the settings menu.
2. Short press the Power button to enter the settings.
3. Short press the Up/Down buttons to adjust the value.
4. Short press the Power button to save and return to the Menu.
5. Press the power button for 3 seconds to cancel the setting and return to the menu.



Function Description for Settings

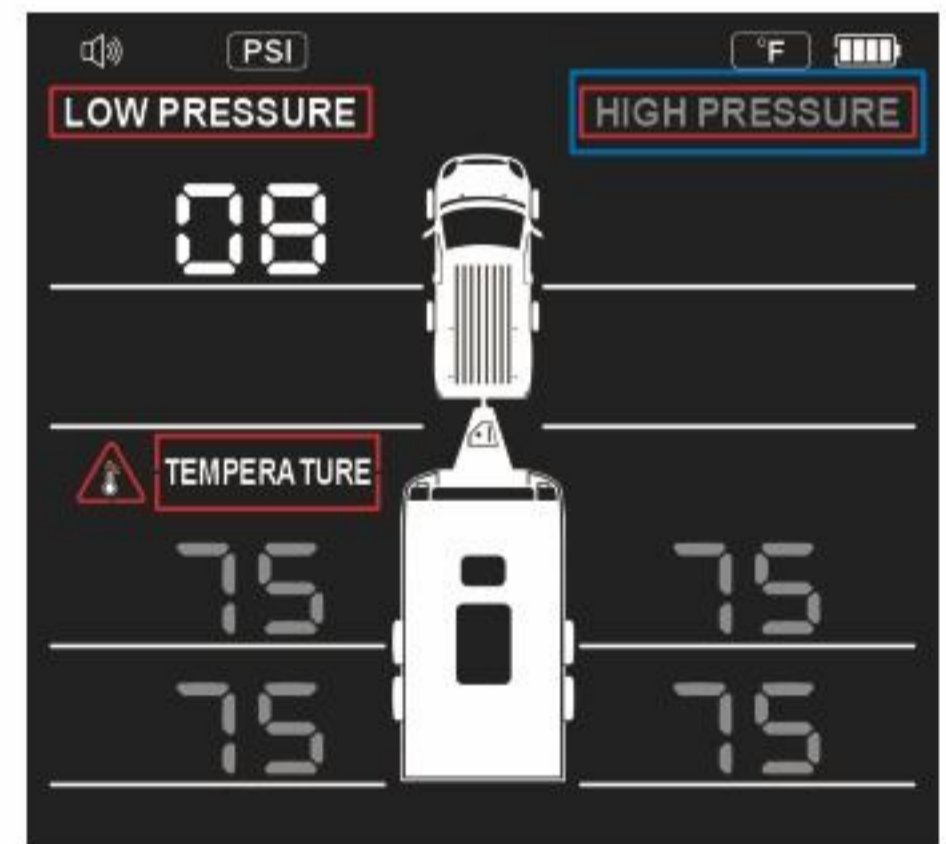
7. Set the High Pressure Alarm for the Pickup Trucks:

1. Select "07" in the settings menu.
2. Short press the Power button to enter the settings.
3. Short press the Up/Down buttons to adjust the value.
4. Short press the Power button to save and return to the Menu.
5. Press the power button for 3 seconds to cancel the setting and return to the menu.



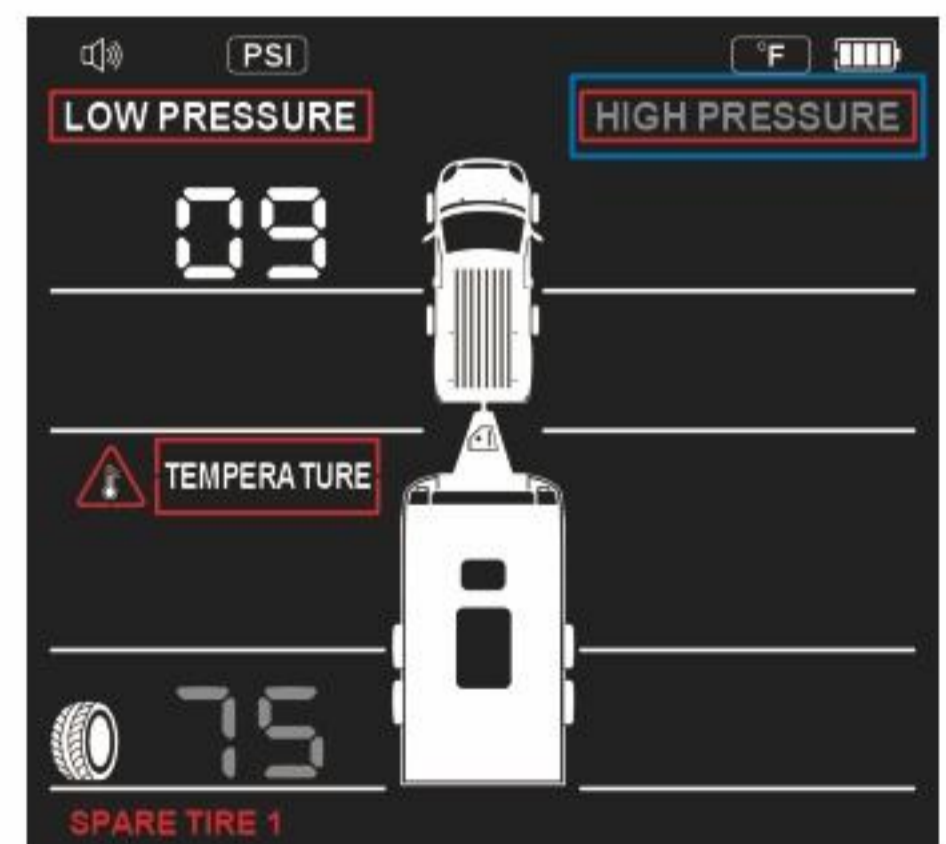
8. Set the High Pressure Alarm for the RV:

1. Select "08" in the settings menu.
2. Short press the Power button to enter the settings.
3. Short press the Up/Down buttons to adjust the value.
4. Short press the Power button to save and return to the Menu.
5. Press the power button for 3 seconds to cancel the setting and return to the menu.



9. Set the High Pressure Alarm for the spare tire 1:

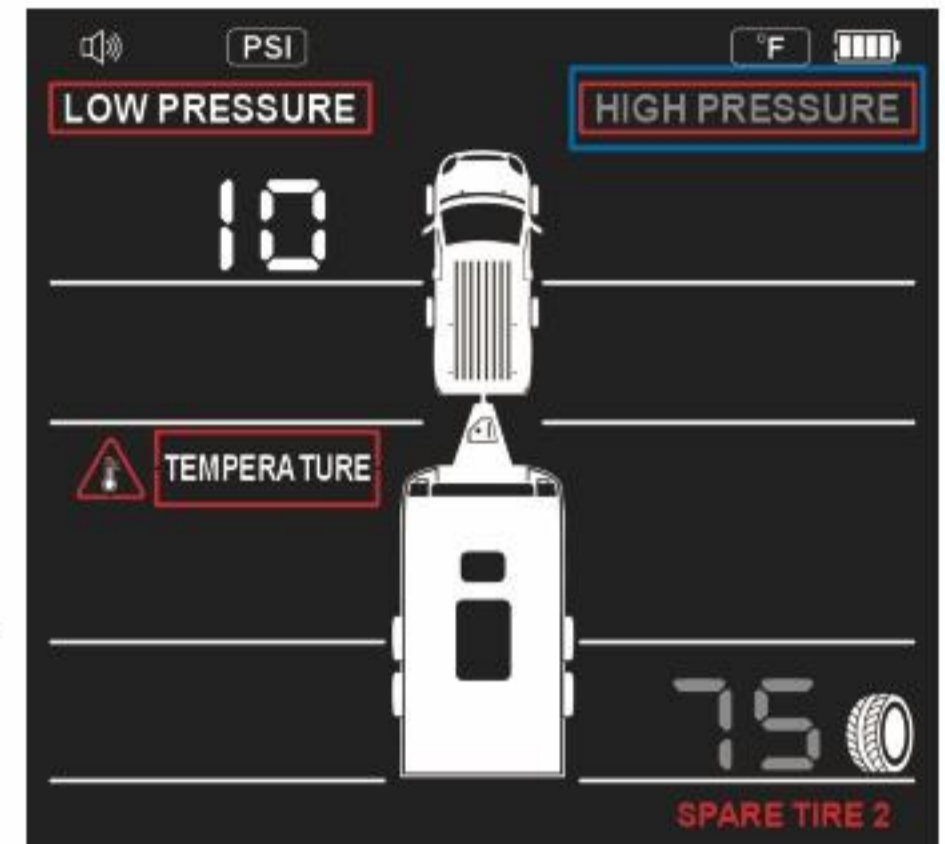
1. Select "09" in the settings menu.
2. Short press the Power button to enter the settings.
3. Short press the Up/Down buttons to adjust the value.
4. Short press the Power button to save and return to the Menu.
5. Press the power button for 3 seconds to cancel the setting and return to the menu.



Function Description for Settings

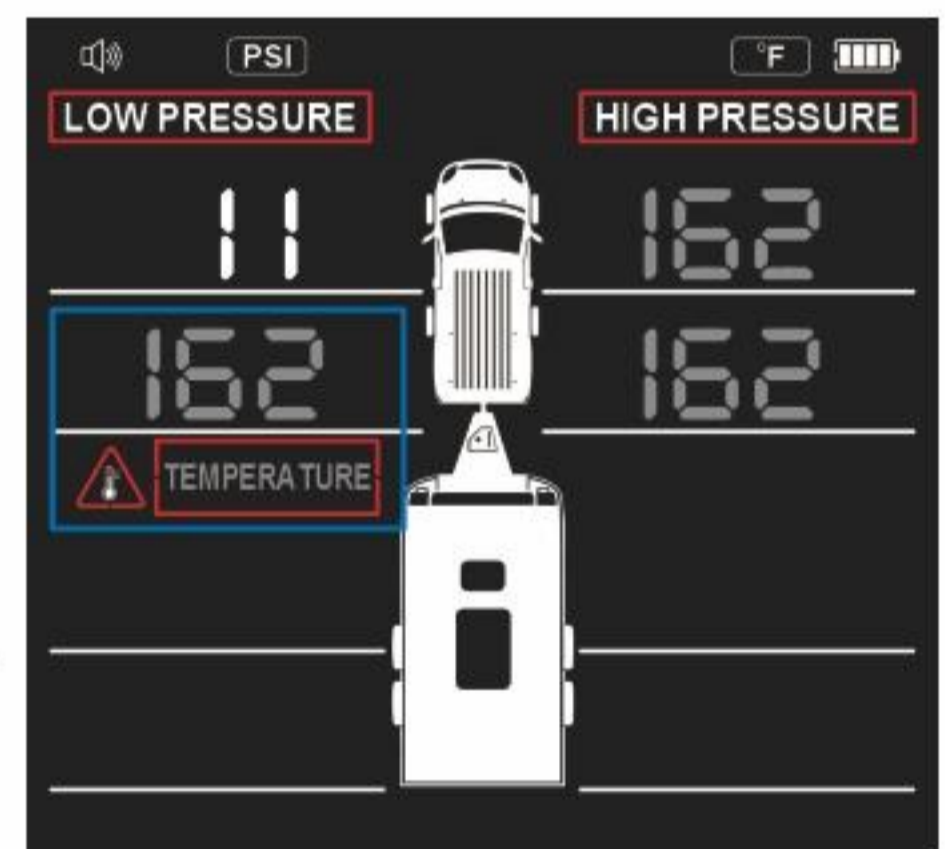
10. Set the High Pressure Alarm for the spare tire 2:

1. Select "10" in the settings menu.
2. Short press the Power button to enter the settings.
3. Short press the Up/Down buttons to adjust the value.
4. Short press the Power button to save and return to the Menu.
5. Press the power button for 3 seconds to cancel the setting and return to the menu.



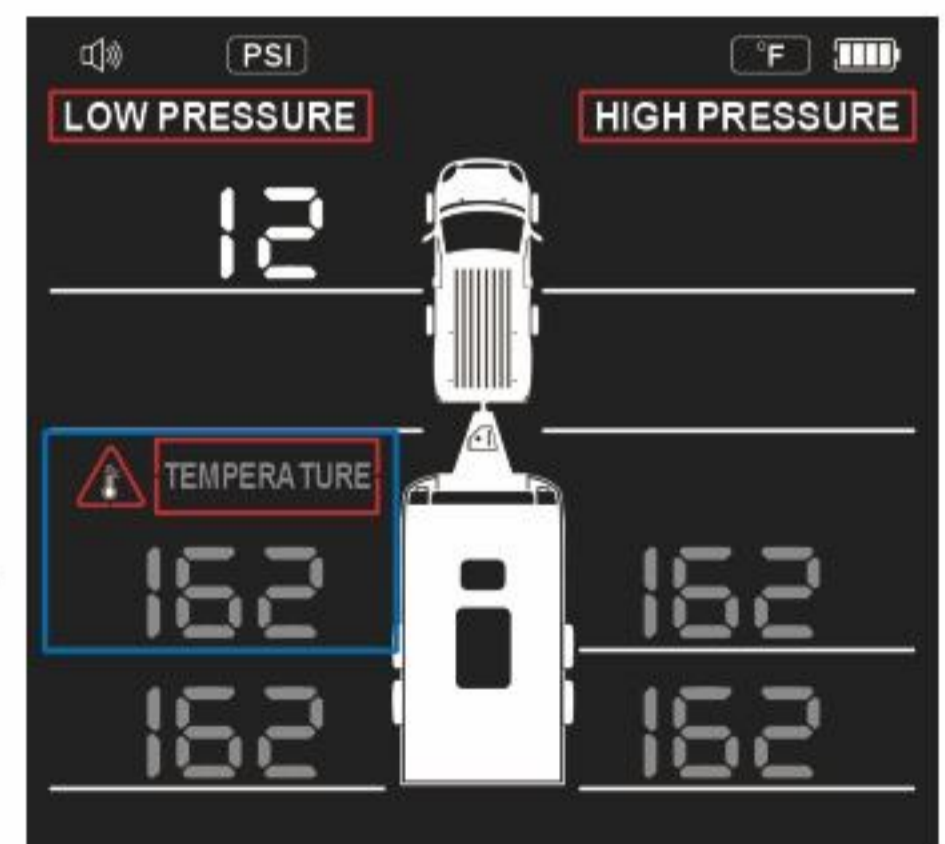
11. Set the High Temperature Alarm for the pickup trucks:

1. Select "11" in the settings menu.
2. Short press the Power button to enter the settings.
3. Short press the Up/Down buttons to adjust the value.
4. Short press the Power button to save and return to the Menu.
5. Press the power button for 3 seconds to cancel the setting and return to the menu.



12. Set the High Temperature Alarm for the RV:

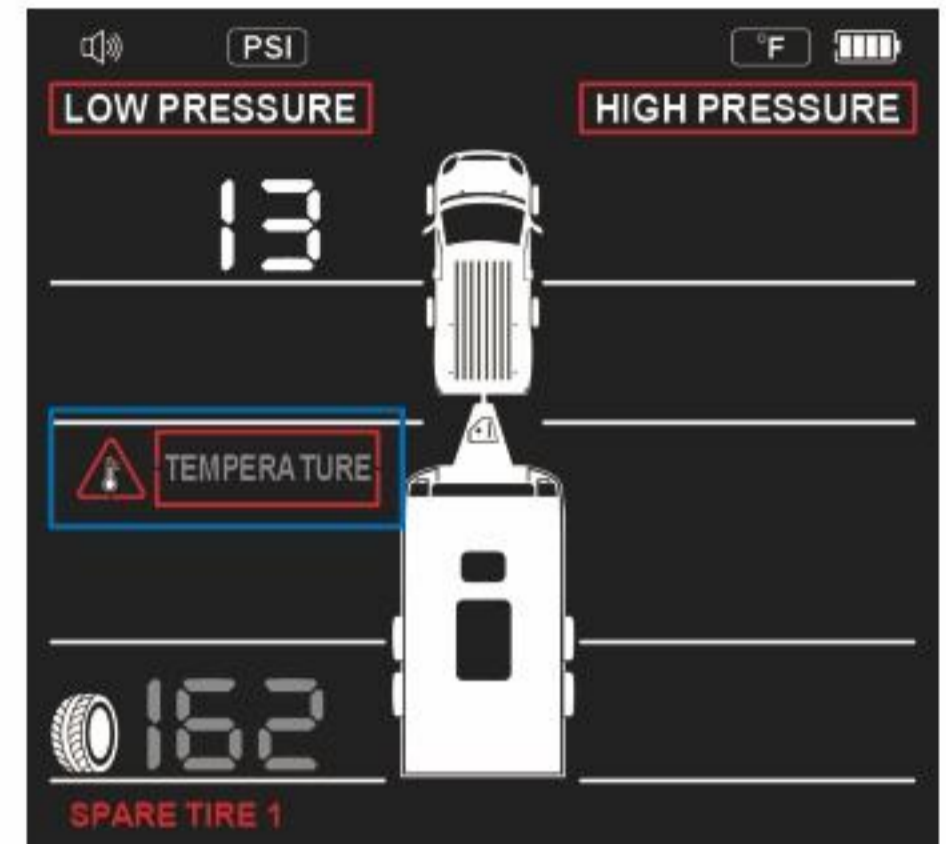
1. Select "12" in the settings menu.
2. Short press the Power button to enter the settings.
3. Short press the Up/Down buttons to adjust the value.
4. Short press the Power button to save and return to the Menu.
5. Press the power button for 3 seconds to cancel the setting and return to the menu.



Function Description for Settings

13. Set the High Temperature Alarm for the spare tire 1:

1. Select "13" in the settings menu.
2. Short press the Power button to enter the settings.
3. Short press the Up/Down buttons to adjust the value.
4. Short press the Power button to save and return to the Menu.
5. Press the power button for 3 seconds to cancel the setting and return to the menu.



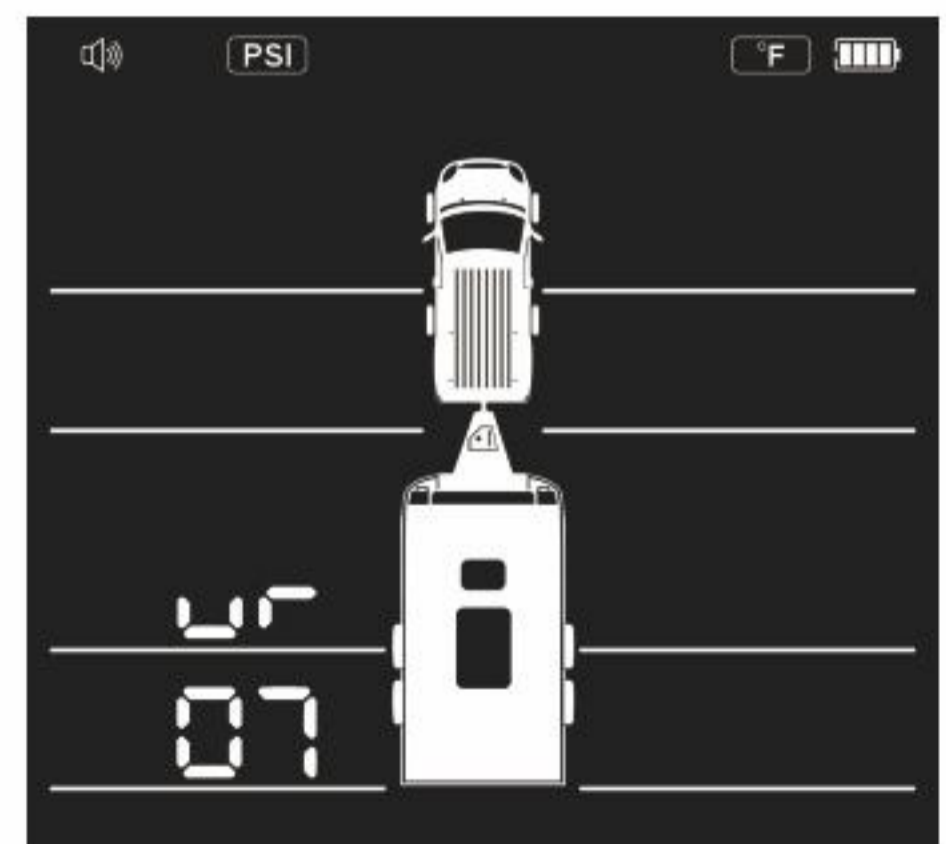
14. (Set the High Temperature Alarm for the spare tire 2):

1. Select "14" in the settings menu.
2. Short press the Power button to enter the settings.
3. Short press the Up/Down buttons to adjust the value.
4. Short press the Power button to save and return to the Menu.
5. Press the power button for 3 seconds to cancel the setting and return to the menu.



15. (Display Version Number):

1. Select "15" in the settings menu.
The displayed content is the current version number of the software.
2. Press the up key briefly to return to the previous settings menu interface.

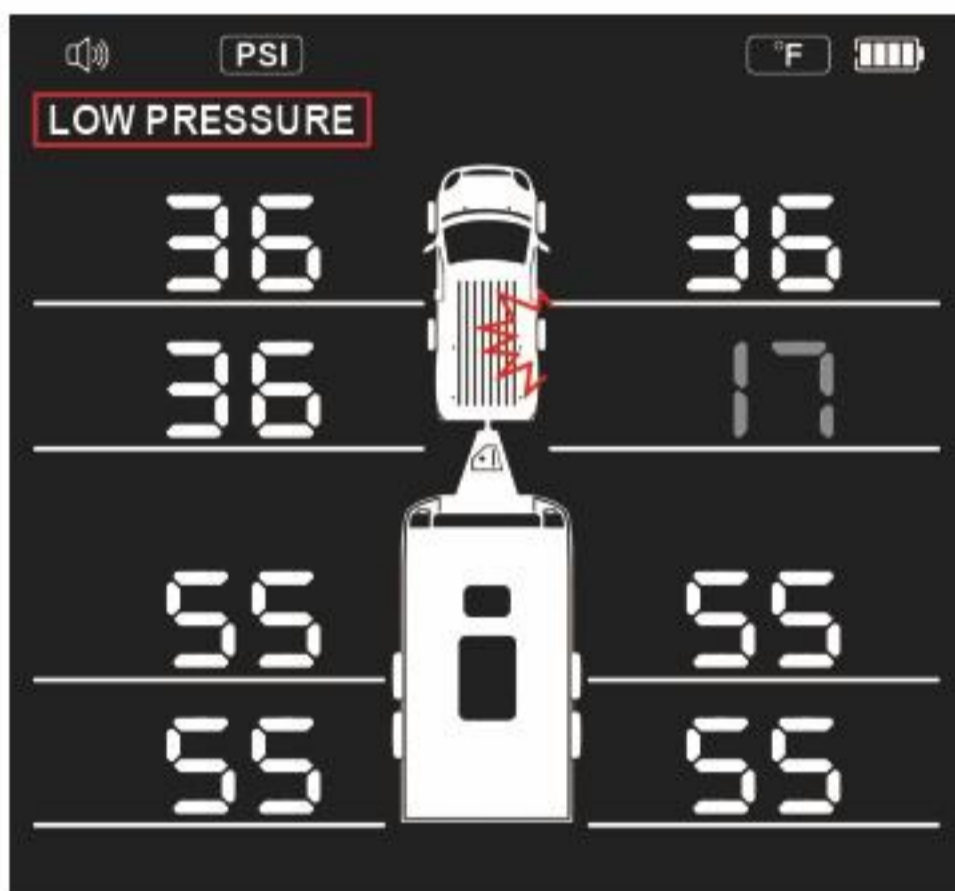


Alerts and Solutions

1. Low Tire Pressure Alert

Trigger Condition: When the tire pressure drops below the defined minimum threshold (e.g., 26 PSI).

Alert Indication: The corresponding tire position on the display will flash, accompanied by a beeping sound. The "LOW PRESSURE" icon shows at the same time.



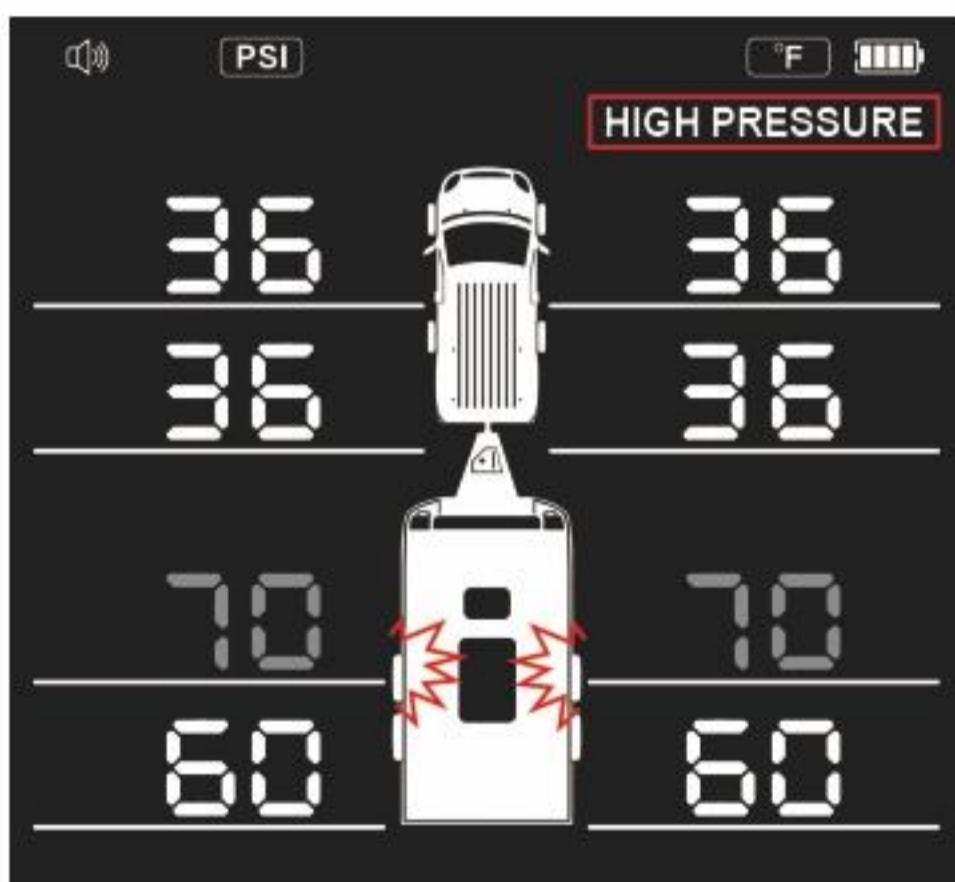
Solution:

- Stop the vehicle in a safe location.
- Visually inspect the tire for any obvious leaks or damage.
- Use a tire pressure gauge to verify the actual tire pressure.
- Inflate the tire to the recommended pressure as needed.
- If the problem persists, please contact a qualified tire technician.

2. High Tire Pressure Alert

Trigger Condition: When the tire pressure exceeds the defined maximum threshold (e.g., 69 PSI).

Alert Indication: The corresponding tire position on the display will flash, accompanied by a beeping sound. The "HIGH PRESSURE" icon shows at the same time.



Solution:

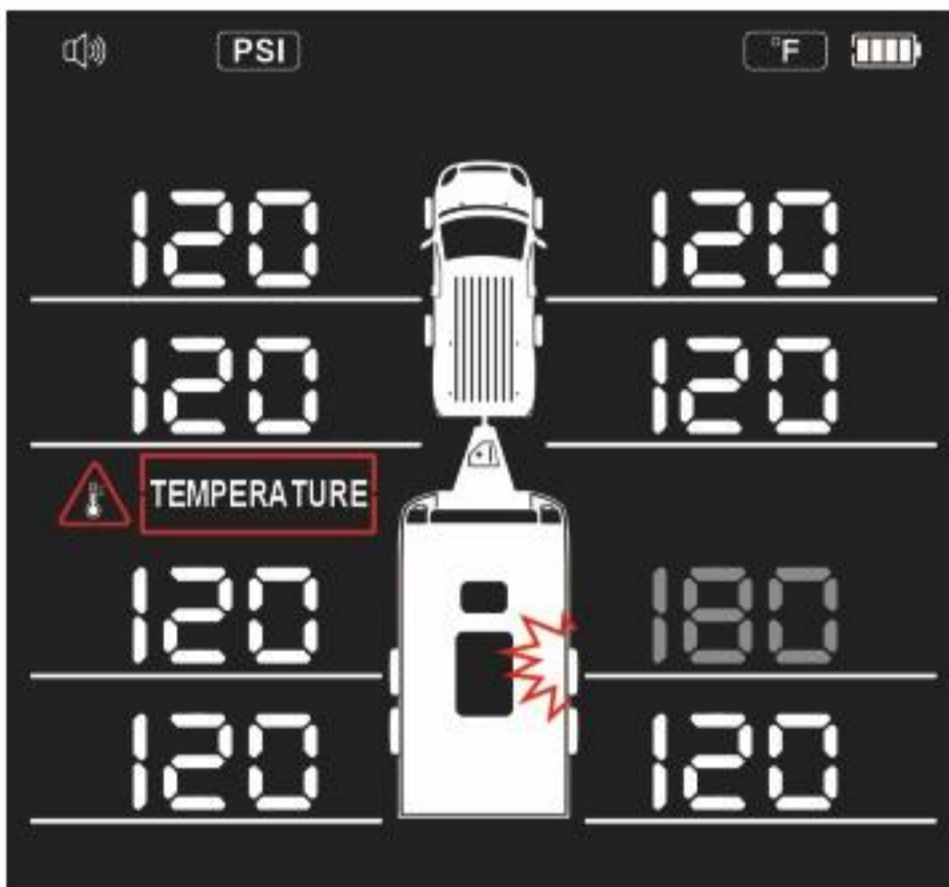
- Stop the vehicle in a safe location. Assess the situation to determine if it is safe to continue driving.
- Use a tire pressure gauge to verify the actual tire pressure.
- If the tire pressure is too high, carefully release some air until it reaches the recommended pressure.
- If the problem persists, please contact a qualified tire technician.

Alerts and Solutions

3. High-Temperature Alert:

Trigger Condition: When the tire temperature exceeds the defined safety threshold (e.g., 75°C).

Alert Indication: The corresponding tire position on the display will flash, accompanied by a beeping sound. The "HIGH TEMPRATURE" icon shows at the same time.



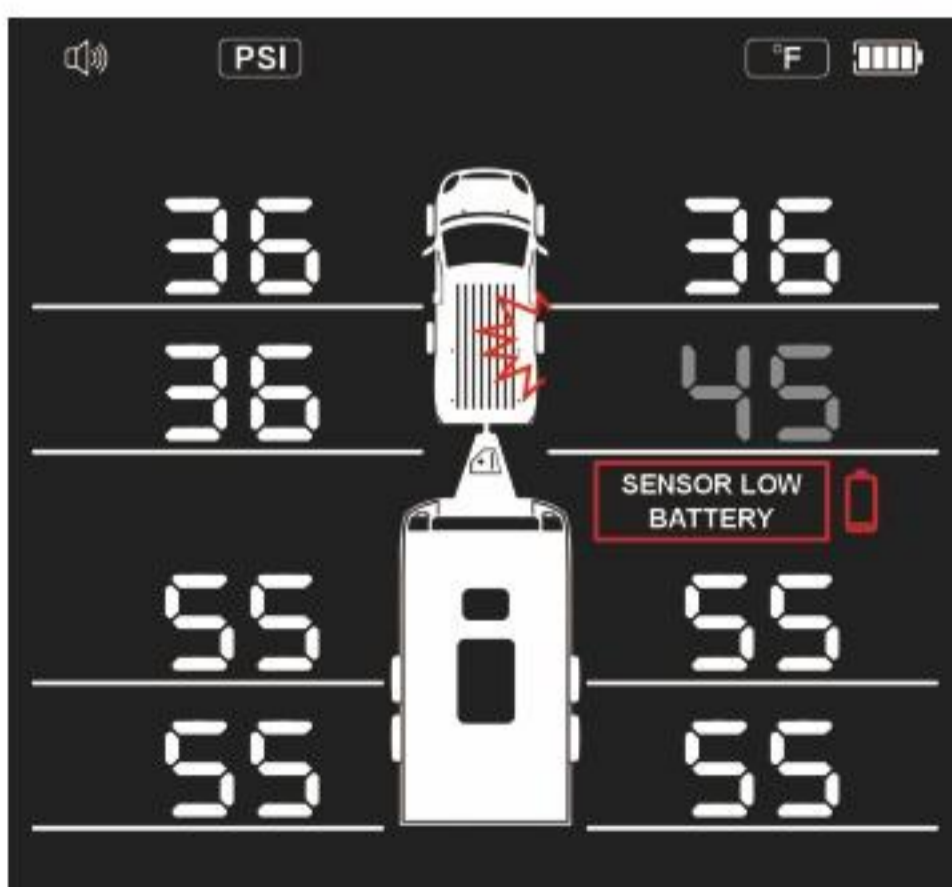
Solution:

- Stop the vehicle in a safe location.
- Inspect the tire surface for any heat-related damage.
- Allow the tires to cool down to a safe temperature range.
- Check for any issues with the braking system or other components that may be causing overheating.
- If the problem persists, contact a qualified technician.

4. Sensor Low Battery Alert:

Trigger Condition: When the sensor battery level falls below the safe operating threshold.

Alert Indication: The corresponding tire displays "LO" and flashes, the "SENSOR LOW BATTERY" icon shows at the same time.



Solution:

- Identify the sensor with the low battery.
- Replace the sensor battery promptly to ensure proper device function.
- Use the recommended battery type for optimal performance.

Switch Between Car Mode and RV Mode

This device can pair with up to 8 sensors at the same time, accommodating both your car and RV—4 sensors for each. It's designed primarily for users with towed RVs.



If you have the version with 8 sensors and don't need to tow your RV, we recommend switching the device to car mode. To do this, press and hold the power button for 3 seconds; the screen will display the "UNHITCHED" icon. This will help prevent any false alerts.



Maintenance and Care

Power & Installation:

- Make sure the display is Power On during installation.
- Use only the supplied power adapter and cable.
- Do not insert foreign objects into the power port.

Environmental Precautions:

- Avoid extreme temperatures.
- Keep dry; do not expose to water or other liquids.
- Store away from direct sunlight and heat when not in use.

Proper Usage:

- Read and retain the user manual. Follow all instructions.
- Use only manufacturer-recommended accessories.
- Use the device only for its intended purpose.

Maintenance & Modifications:

- Do not disassemble or modify the device. Unauthorized repairs void any warranty and could be dangerous.
- Handle cables with care; avoid puncturing, bending excessively, twisting, stretching, or exposing them to high temperatures. Do not place heavy objects on the cable.

Disclaimer: The manufacturer is not liable for damage caused by misuse or improper handling.

Troubleshooting

Q: What should I do if the sensor loses connection, displays inaccurate values, or fails to pair?

A: 1. Remove the sensor, turn on the display, and then reinstall the sensor.

2. Drive for a short distance with the display turned on; the device should automatically read the sensor data.



1. Use a small wrench to loosen the anti-theft nut in a clockwise direction and remove the sensor.



2. Turn on the display screen.



3. Reinstall the sensor. For the installation steps, please refer to P3.



4. Drive for a certain distance while the monitor is powered on.

Troubleshooting

Q: What should I do if the tire pressure monitoring system (TPMS) display doesn't show any data?

A: Please try the following troubleshooting steps:

1. Check if the display is powered on.
2. Ensure the sensors are properly paired with the display.
3. Check if the sensor batteries are low.
4. If the issue persists, please contact customer service.

Q: What is the battery life of the TPMS sensors?

A: Depending on driving time, the battery life of external sensors is typically 6-24 months. Regular replacement is required.

Q: Does the TPMS require regular maintenance?

A: Yes. It's recommended to regularly check the working condition of the sensors and the waterproof seal of external sensors. Also, avoid impacts or corrosive substances.

Q: Are the TPMS sensors interchangeable?

A: The original sensors and display are pre-paired at the factory. Interchanging them is generally not recommended.

Troubleshooting

Q: Are external TPMS sensors easily stolen?

A: External TPMS sensors are usually equipped with anti-theft nuts or tools, making them difficult to steal under normal use. However, be mindful of your parking environment.

Q: Why is the TPMS reading different from my tire pressure gauge?

A: Possible reasons include: TPMS measurement error, tire pressure fluctuations due to temperature changes, and tire gauge inaccuracy.

Q: Which vehicle models are compatible with this TPMS?

A: This product has a maximum tire pressure monitoring range of 0-108 psi (0-7.5 Bar) and is suitable for most RVs, including Campers, Travel Trailers, Class B, Class C, Toy Haulers, and most other RVs except for oversized ones.

Q: Do I need to reset the TPMS after changing tires?

A: No. However, ensure the sensors are correctly positioned and installed.

Q: What if I lose a sensor?

A: Replacement sensors are available for purchase on our official website and Amazon. Please refer to this manual for specific pairing instructions.

Sensor Battery Replacement

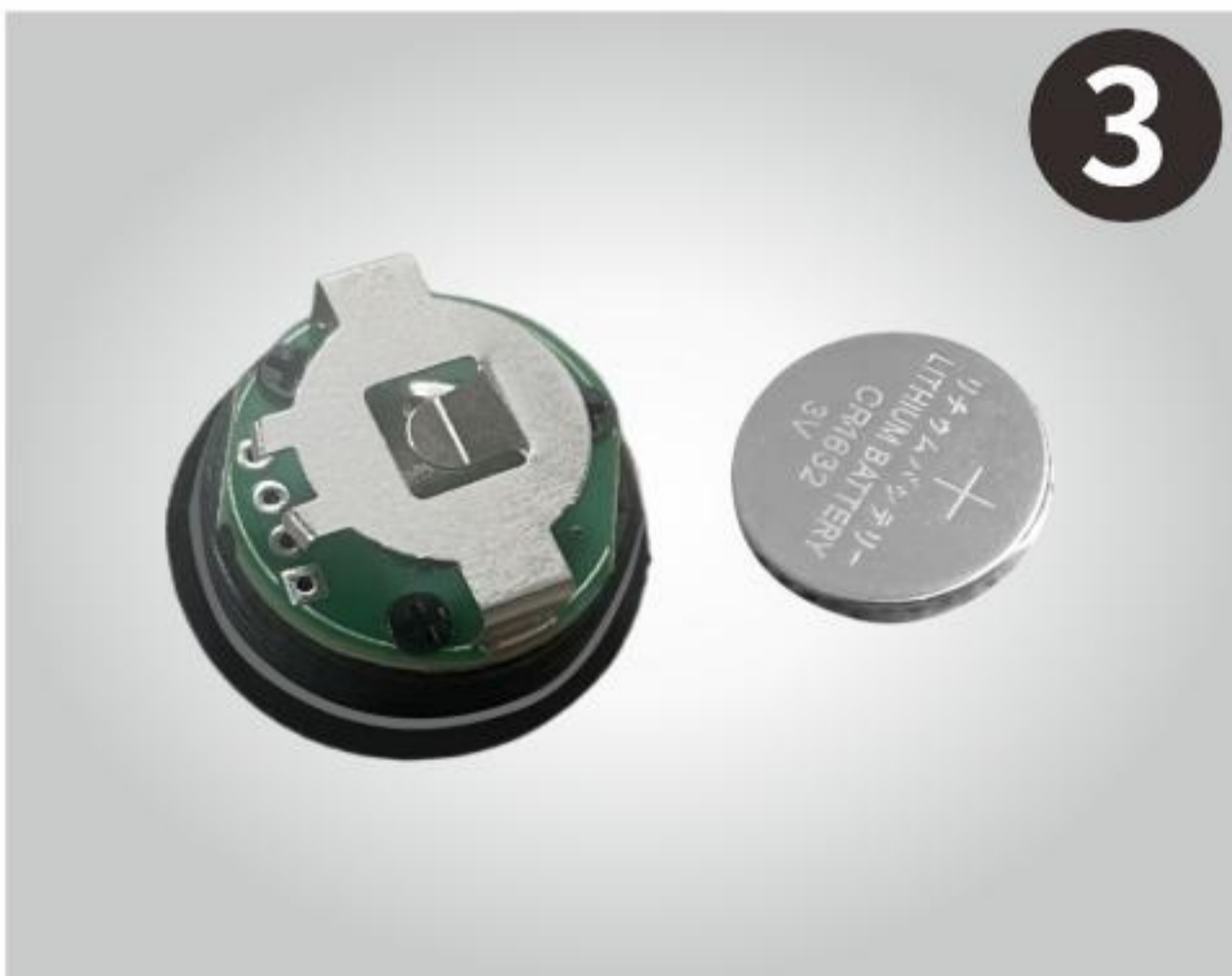
How to change the sensor's battery when the power is low. Battery model: CR1632H



1. Loosen sensor: Use wrench to remove sensor from valve stem.



2. Open casing: Access battery compartment.



3. Change battery: Insert new battery, matching +/-.



4. Reinstall sensor: Tighten sensor onto valve stem.

Technical Specifications

Alarm content	Default value	Setting range
Tire Pressure Unit	PSI	BAR/PSI
Temperature Unit	°F	°C/°F
Low Pressure Alarm - TV	26 PSI(1.8 Bar)	16 – 108 PSI(1.1 – 7.5 Bar)
Low Pressure Alarm - RV	50 PSI(3.4 Bar)	16 – 108 PSI(1.1 – 7.5 Bar)
Low Pressure Alarm - Spare Tire 1	26 PSI(1.8 Bar)	16 – 108 PSI(1.1 – 7.5 Bar)
Low Pressure Alarm - Spare Tire 2	50 PSI(3.4 Bar)	16 – 108 PSI(1.1 – 7.5 Bar)
High Pressure Alarm - TV	46 PSI(3.2 Bar)	26 – 108 PSI(1.8 – 7.5 Bar)
High Pressure Alarm - RV	70 PSI(4.8 Bar)	26 – 108 PSI(1.8 – 7.5 Bar)
High Pressure Alarm - Spare Tire 1	46 PSI(3.2 Bar)	26 – 108 PSI(1.8 – 7.5 Bar)
High Pressure Alarm - Spare Tire 2	70 PSI(4.8 Bar)	26 – 108 PSI(1.8 – 7.5 Bar)
High Temperature Alarm - TV	167°F (75°C)	77-194°F(25 – 90 °C)
High Temperature Alarm - RV	167°F (75°C)	77-194°F(25 – 90 °C)
High Temperature Alarm - Spare Tire 1	167°F (75°C)	77-194°F(25 – 90 °C)
High Temperature Alarm - Spare Tire 2	167°F(75°C)	77-194°F(25 – 90 °C)

*TV stands for Towing Vehicle, and RV stands for Recreational Vehicle.

1. Display Parameters

Power Supply:	Lithium Battery 3.7V/Type-C 5V
Operating Current:	110mA ;
Power:	1.2W ;
Operating Temp:	-20°C ~ 80°C ;
Weight:	138g ;
Dimensions:	75.5*97.9*18.6mm

2. Sensor parameters

Power Supply:	Button Cell: CR1632
Measuring Range:	0-7.5BAR,0-108PSI
Operating Temperature:	-20°C ~ 80°C ;
Battery Low Voltage Alarm:	2.3V
Waterproof and Dustproof Grade:	IP67
Sensor Size:	20*20*17mm

Warranty

Aftermarket Warranty

- ◆ The main unit is covered by a 1-year warranty from the date of purchase, while included accessories are warranted for 1 year from the date of receipt.

Warranty and Replacement Policy

- ◆ We will repair or replace equipment based on specific failures.
- ◆ All replacement parts, accessories, or equipment will be original and new.
- ◆ If a failure occurs within 90 days of purchase and you provide video and pictures, we will cover the shipping cost and provide free replacement accessories. For products purchased beyond 90 days, customers will be responsible for shipping costs, but we will still provide replacement accessories free of charge.

The following are not covered by the free warranty

- ◆ Products purchased through informal channels are not covered by this warranty.
- ◆ Damage resulting from improper use or maintenance contrary to the product manual is not covered.

We take pride in our exceptional design and customer service, and we're happy to offer additional support as needed.

Please Note

- ◆ Please be aware that we reserve the right to change product designs and specifications without prior notice. The actual product's appearance and color may differ from those shown in the manual. While we strive for accuracy in our descriptions, inaccuracies may occur. For any questions, please contact your dealer or our after-sales service center. The company holds the final interpretation of the product and is not liable for misunderstandings.

AOMOSUR Technology Co., Ltd

📍 527-1641 Lonsdale Ave,
North Vancouver, BC
V7M 2J5,
Canada

🌐 <http://www.aomosur.com>

✉ customer@aomosur.com

