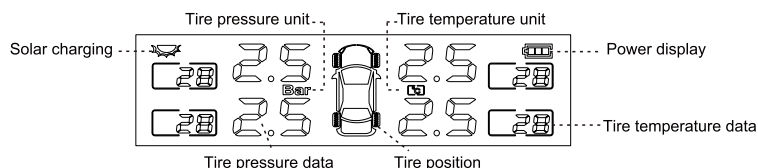# TPMS

●Press and hold the left button " ◀ " for three seconds to turn on/off
●The monitor can automatically power off/on
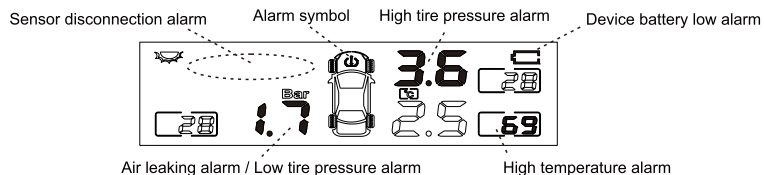●When the data is abnormal, the device will update the data in real time

1. Device Function

(1)Real-time monitoring of tire pressure & temperature
(2)Supports solar charging and USB charging
(3)Numbers for tire pressure/temperature alarm can be set
(4)Air leakage alarm, high/low pressure alarm, high temperature alarm
(5)Changeable tire position

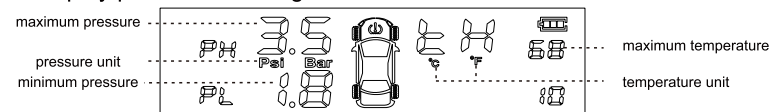## 2. Schematic

- Solar charging
- Tire pressure unit
- Tire temperature unit
- Power display
- Bar
- Tire temperature data
- Tire pressure data
- Tire position

3.Screen alarm analysis diagram

- Sensor disconnection alarm
- Alarm symbol
- High tire pressure alarm
- Device battery low alarm
- Air leaking alarm / Low tire pressure alarm
- High temperature alarm

4.Display parameter setting

- maximum pressure
- pressure unit
- minimum pressure
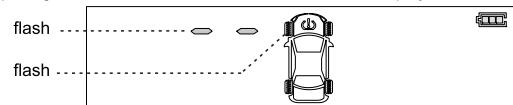- maximum temperature
- temperature unit

Enter the setting mode: long press the "M" button for 3 seconds, the buzzer "Bi" sounds to enter the setting mode, and short press the "M" button to select the setting equipment parameters, including the pressure unit (Bar/Psi)/temperature unit (°C/°F)/maximum pressure/minimum pressure/maximum temperature, adjust the parameters by short pressing " ◀ " or " ▶ ", and then long press "M" for 3 seconds to save and exit.
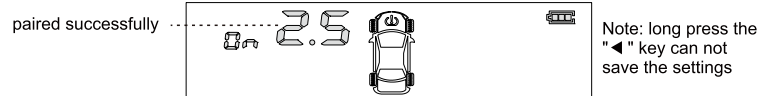
(1) Pressure unit setting: when "bar"/"psi" flashes, press " ◀ " or " ▶ " to select the pressure unit, long press the "M" key to save setting. (The factory default is "bar")

(2)Temperature unit setting: When "°C" or "°F" flashes, press " ◀ " or " ▶ " to select the temperature unit, and long press the "M" key to save the setting. (factory default is °C)

(3)Maximum pressure setting: In the "PH" setting state, the maximum pressure value flashes, press " ◀ " or " ▶ " to adjust the pressure value, and long press the "M" key to save the setting. (Adjustable range: 0.6-6.0bar, factory default setting is 3.5bar)

(4)Minimum pressure setting: In the "PL" setting state, the minimum pressure value flashes, press " ◀ " or " ▶ " to adjust the pressure value, and long press the "M" key to save the setting. (Adjustable range: 0.5-5.9bar, factory default setting is 1.8bar)

(5)The best temperature setting: in the "TH" setting state, the maximum temperature value flashes, press " ◀ " or " ▶ " to adjust the temperature value, and long press the "M" key to save the setting. (Adjustable range: 50°C-90°Cbar, factory default setting is 68°C)

5. Display and sensor pairing

(1) Enter the pairing mode: Press the " ▶ " button 8 times continuously, the buzzer "Bi" will enter the pairing mode, the left front wheel flashes, and the display interface is as shown below.
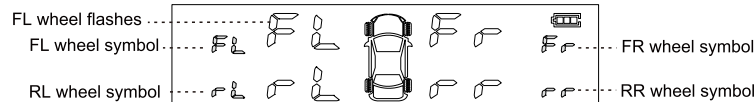

- flash
- flash

(2) Pairing: After entering the pairing mode, short press " ▶ " to select the tire to be paired. At this time, inflate the tire or screw the sensor to the air nozzle. After the display receives the signal, "--" will become data, indicating the tire The pairing is successful, press " ▶ " to select the next tire to be paired, and after all are paired, long press the "M" button to save the settings.

- paired successfully

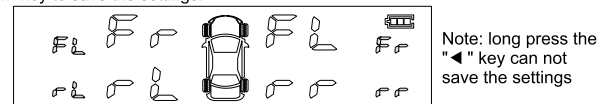Note: long press the " ◀ " key can not save the settings

6.Swap sensor positions

(1) Enter the sensor position exchange mode: press the "M" key 10 times continuously, the buzzer "Bi" will enter the tire exchange mode, and will "FL" flash, as shown in the figure below.
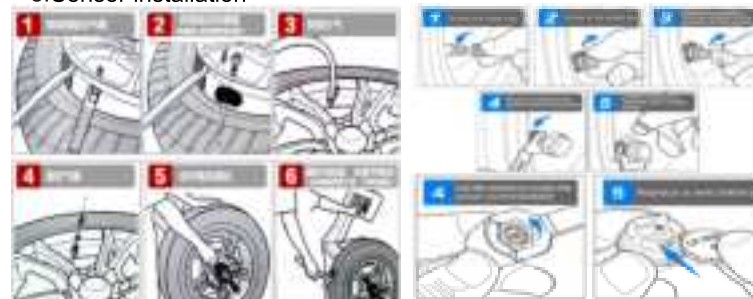

- FL wheel flashes
- FL wheel symbol
- FR wheel symbol
- RL wheel symbol
- RR wheel symbol

(2) Setting operation: After entering the setting page, short press "M" to select the first sensor to be exchanged; after the selection is successful, its symbol will flash, then press the " ▶ " key to adjust the second sensor to be exchanged, and then Press the "M" key to confirm the swap, and finally press and hold the "M" key to save the settings.

Note: long press the " ◀ " key can not save the settings

7. Equipment parameters

project \ part	External sensor	Internal sensor	Display
Working frequency	433.9200MHz ± 0.1Mhz		
Operating Voltage	3V	3V	3.7V
Working current	Static≤1uA	Static≤1uA	Static≤50uA
	≤15mA	≤15mA	≤5mA
surroundings temperature	-20°C ~ +80°C	-40°C ~ +120°C	-40°C ~ +70°C
Monitoring range temperature	-40°C ~ +120°C		
Monitoring range pressure	0 - 5Bar		
Precision temperature	±2°C		
Precision pressure	± 0.1 Bar		

8.Sensor installation

Built-in sensor installation

External sensor installation

Battery replace