

NIU TIRE PRESSURE AND TEMPERATURE MONITOR



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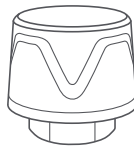
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Product Description

* Please read this manual carefully before using the product and keep it for future reference.

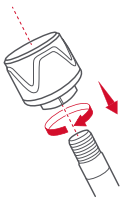


Open-End Wrench

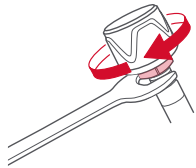


Sensor ×2

How to Properly Install the NIU Tire Pressure and Temperature Monitoring System



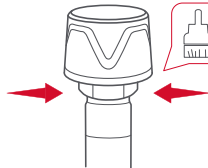
- 1** Align the sensor with the valve stem thread and rotate it clockwise until it is securely tightened.



- 2** Then use a wrench to tighten the sensor clockwise until it is fully secured, and make sure there is no hissing sound of air leakage.



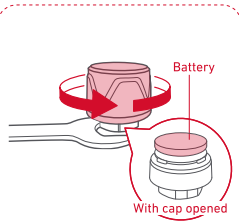
Before installation, ensure that the valve stem threads are clean. If the sensor becomes misaligned during threading, do not force it in, as this may damage the sensor threads.



Can use a brush to apply soapy water to the area indicated by the arrow.

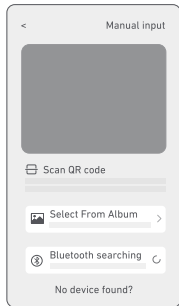
- 3** Spray soapy water on the connection point between the sensor and the valve stem (indicated by the arrow) to check for air bubbles, which may indicate a tire pressure leak. If no bubbles appear, the installation is correct. If bubbles are present, ensure the sensor is properly tightened or reinstall it following the correct procedure.

* The sensor requires the vehicle's battery to be connected during use.

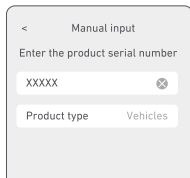


Use a wrench to unscrew the device and replace the button cell.

Binding the Tire Pressure and Temperature Monitoring System

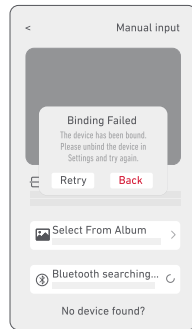


1 To bind the sensor, scan the QR code on the top, or manually enter the device ID found on the bottom of the unit.

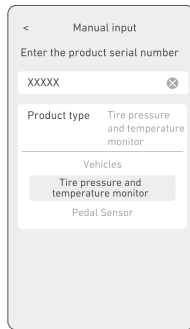


Device ID is located on the bottom.

Manual Binding: Bind the device by manually entering the device ID.



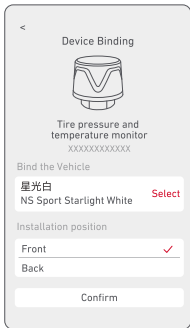
QR Code Binding



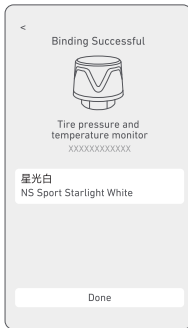
Manual Binding

Binding Unsuccessful

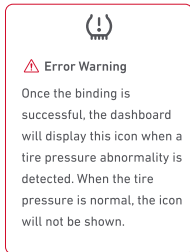
The monitoring device can only be bound once and cannot be bound multiple times. Currently, only NIU vehicle owners can bind and manage the device through the NIU app. The software will be updated periodically, and all functions are subject to the latest version.



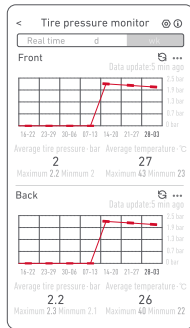
- 2** Bind Vehicle.
Select the vehicle to bind and the installation location.



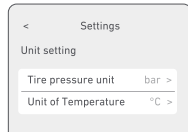
- 3** Binding successful.



Instructions



- The default display shows real-time tire pressure and temperature curves, and it can be switched to "Day" or "Week" for monitoring.
- Tap the settings button to enter the unit settings. The default pressure unit is bar, and the default temperature unit is °C. Users can tap to modify them.



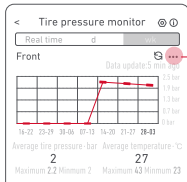
- Once the tire pressure monitor is bound to the vehicle, it will remain linked to that vehicle. In the event of a vehicle transfer or unbinding, the tire pressure monitor will also be transferred or unbound accordingly.

4 The device will automatically enter sleep mode after the vehicle has been stationary for 10 minutes.

5 While in sleep mode, the device will be reactivated to read tire pressure and temperature information if any of the following conditions are met:

1. Vehicle speed ≥ 10 km/h
2. Tire pressure changes by ≥ 0.3 bar within 15 seconds

6 The device management option is only visible to the vehicle owner; it is not accessible to non-owners.



Tap to enter the Device Management section.



Device Binding and Unbinding:

Once the device is bound, it must be unbound before it can be linked to another vehicle. Users can unbind the device via the Device Management section. (Only the vehicle owner can bind and manage the device. If the user does not manually unbind it, the device cannot be used with another vehicle.)

Helpful Tips

TPMS Activation Mechanism

The tire pressure monitor normally stays in sleep mode and does not transmit data. It will only wake up and activate when either of the following two conditions is met. The activation conditions and data transmission mechanisms are as follows:

- When stationary: if the tire pressure changes by ≥ 0.3 bar within 15 seconds, the device is activated and sends data once.
- When riding: if the speed is 10 km/h or above, the device wakes up and sends data once; if the tire pressure changes by 0.3 bar or more, it sends data once.

Phone Real-Time Data Reception Conditions

The tire pressure monitor transmits real-time data to the NIU Electric APP via the central control unit. After selecting the vehicle bound to the tire pressure monitor as the current vehicle, data can be received once the vehicle meets the activation conditions mentioned above.

Note: The software is updated periodically. Features and interface are subject to the latest version.

Suitable Tire Pressure Range

Tire pressure is crucial for both tire lifespan and driving range. If the tire pressure is too high, the tire's grip will decrease, which affects braking performance and riding comfort, and also increases the risk of a blowout. If the tire pressure is too low, the contact area between the tire and the ground becomes larger, leading to increased wear on the tire sidewalls and higher power consumption. Driving for too long with low tire pressure can cause the tire to overheat, damage the sidewalls, or even result in a blowout. Each tire has a recommended pressure value, which varies, so please refer to the markings on the tire sidewall. When inflating, do not exceed the maximum pressure indicated on the tire sidewall.

The recommended tire pressure for NIU original tires is 2.0–2.8 bar (measured when the vehicle is stationary and cold). Please adjust the pressure accordingly based on factors such as temperature, load, and road conditions.

Technical Specifications

Item	Specification
Product Model	TYQ-31
Product Dimensions	Φ21.8 × 17.2 mm
Operating Voltage	3 V
Operating Frequency	2.4 GHz
Operating Humidity	95% Max.
Storage Temperature	-40°C ~ 85°C
Operating Temperature	-40°C ~ 85°C
Tire Pressure Monitoring Range	0~640 kPa (0~6.4 bar)
Tire Temperature Monitoring Range	-40°C ~ 85°C
Battery Life	Approximately 1 year ^[1]
Battery Model	CR1632 (Replaceable)
Product Features	Monitor Tire Pressure、Tire Temperature Monitoring

[1] The battery life is approximately 1 year (based on 2 hours of riding per day).

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Warranty Policy

Warranty Policy

This product is covered by a 2-year warranty within the legal regulations applicable in the European Union. The warranty period begins from the day after the customer makes the purchase.

During the warranty period, you can enjoy the services of returning or exchanging goods in accordance with these regulations. The exchange or return should be processed with the invoice.

- Within 30 days of purchasing the product, if there is any quality issue, and it is confirmed by the seller that the problem is genuine, you can request a normal exchange or return from the seller.
- If there is a quality issue after the product purchase exceeds 30 days, and it is confirmed by the seller that the problem is genuine, you can request a normal exchange from the seller, but no return processing will be provided.

Non-Warranty Terms

- Unauthorized repairs, misuse, collisions, negligence, abuse, liquid ingress, accidents, modifications, incorrect use of non-product accessories, or tearing, altering of labels, or anti-counterfeiting marks;
- Beyond the warranty period;
- Damage caused by force majeure;
- Damage to the product caused by human factors.

If you have any questions or concerns regarding this product, you can directly contact us via the following email. We appreciate your continuous support and understanding.

questions@niu.com

小牛电动 胎压胎温监测器2 TYQ-31说明书 海外

物料编码

设计师

陈卫萍

设计时间

2025.08.11

数量

1

更改备注

批准

尺寸

成型尺寸: 90*65mm

展开尺寸:

方向

图纸方向: 印刷方向

展开尺寸: XX方向

公差 (无特殊说明下)

纸箱类: ±3 mm

标签类: ±0.5 mm

说明书类: ±1 mm

PE袋类: 0~20 cm ±2 mm 20~50 cm ±3 mm
50~100cm ±5 mm

图示说明

—— 裁切线

—— 压线

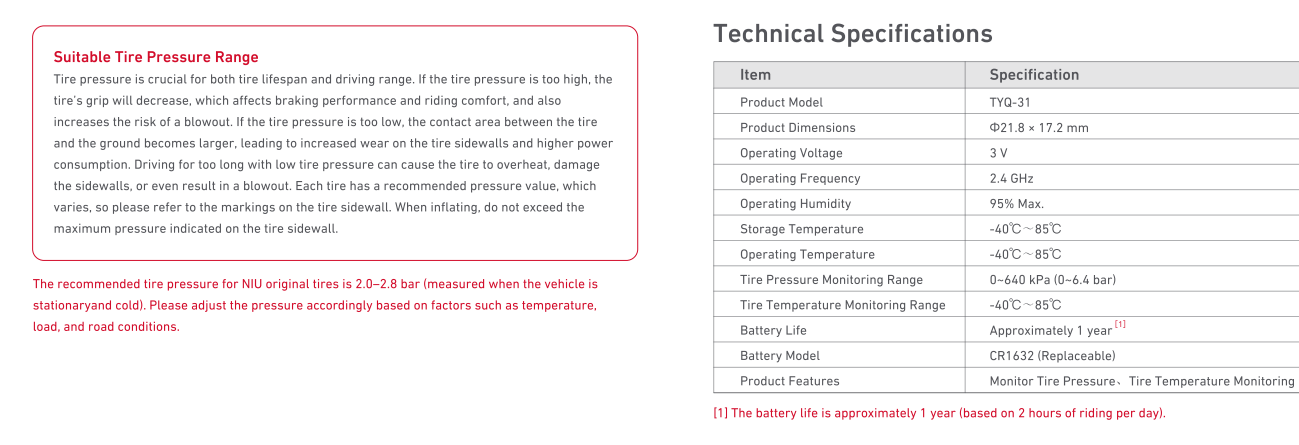
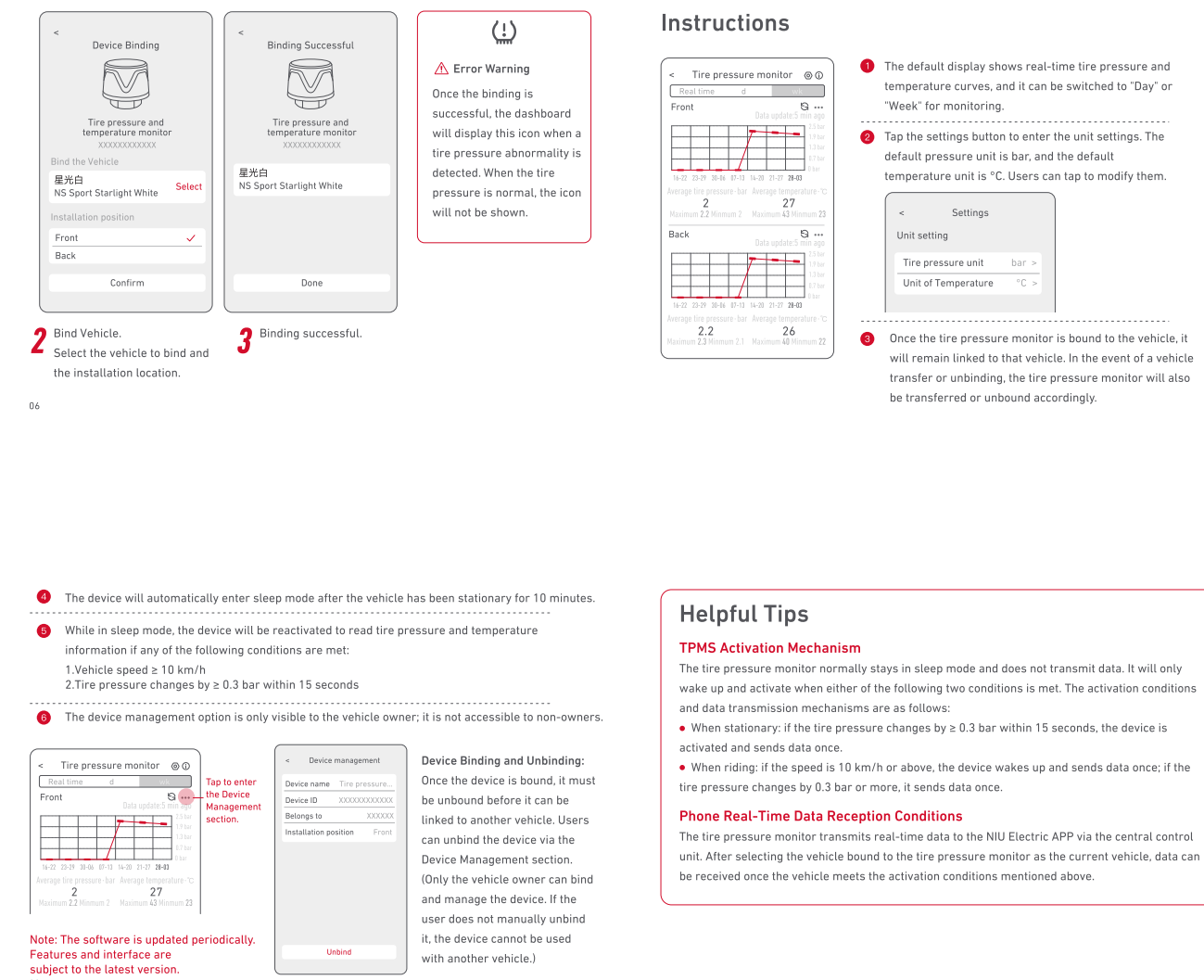
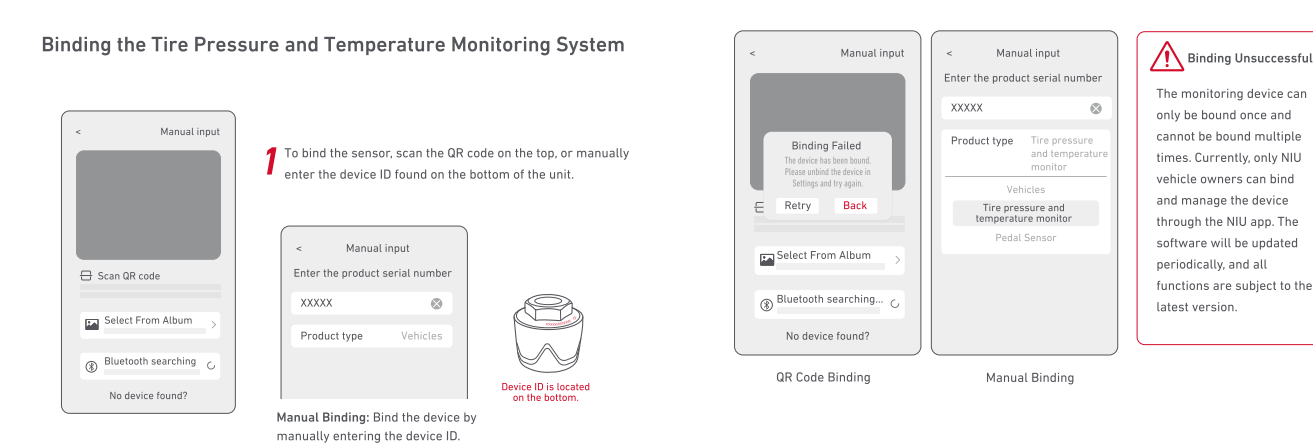
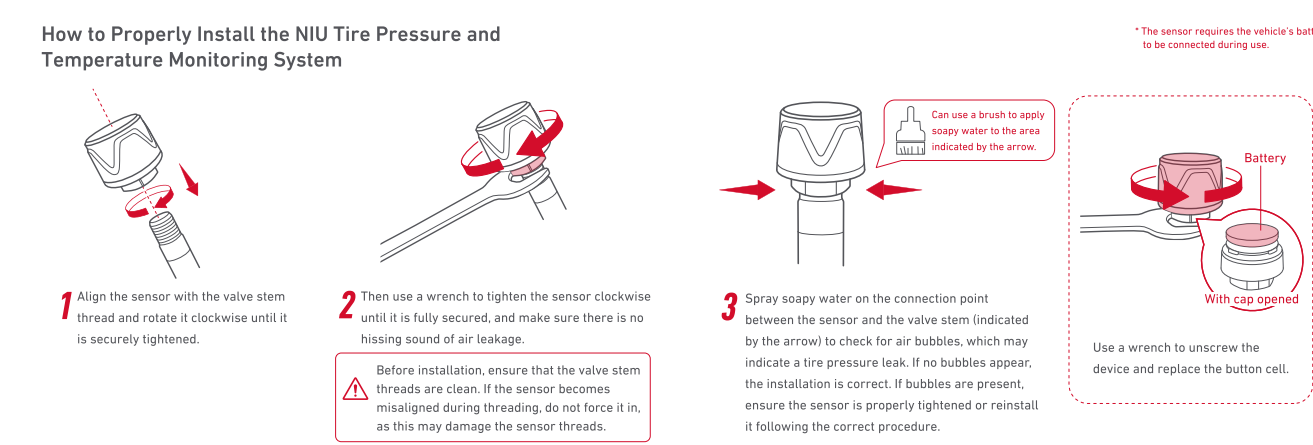
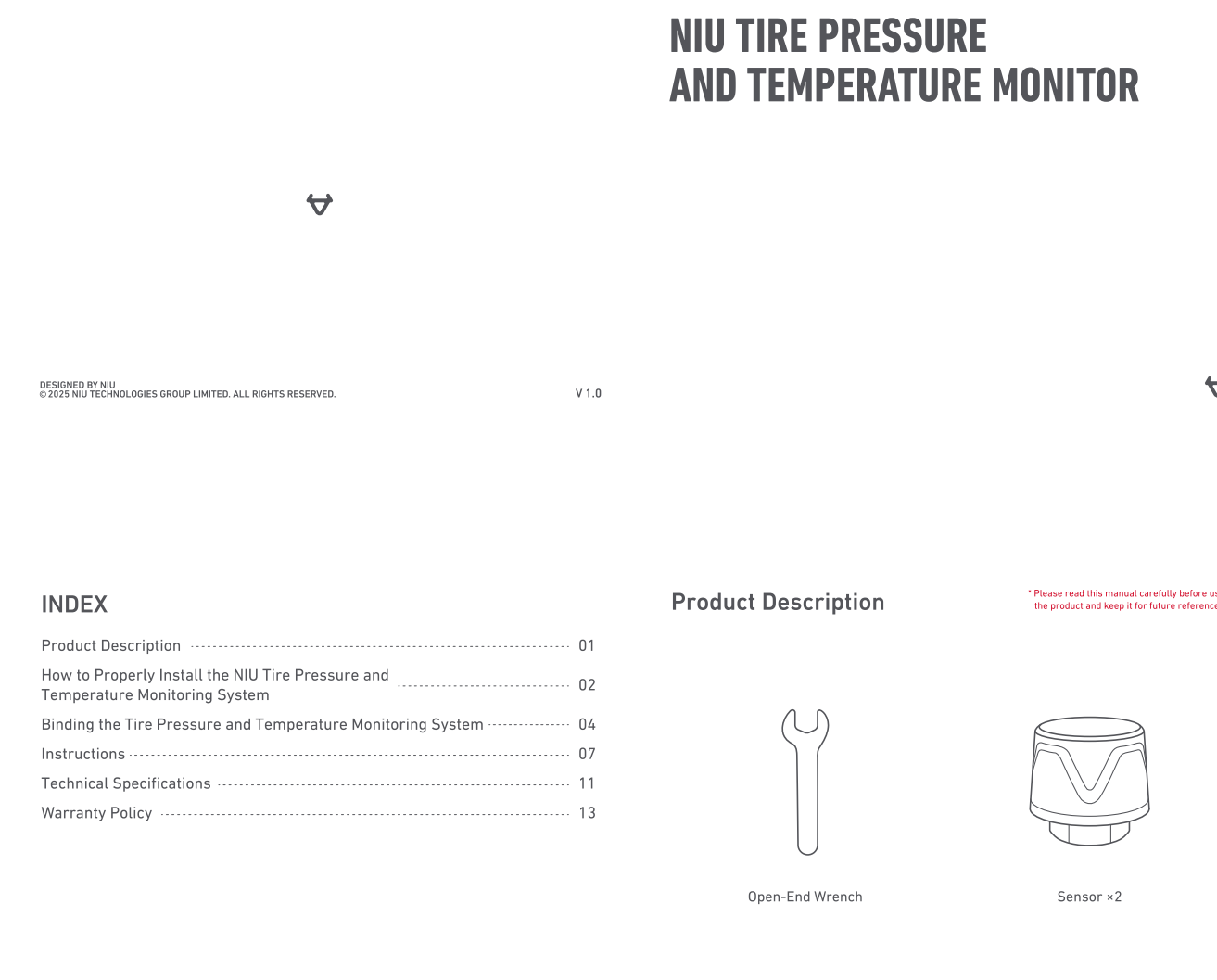
----- 反压线

----- 间隔刀线 x/x mm

===== 开槽

▨ 粘合区域

比例 1:1 单位 mm



样品版本

技术说明:

1、材料(楞形\克重配比): 100g双胶纸

2、工艺: 正反面印刷 骑马钉

3、印刷颜色: 2专 PANTONE Cool Gray 11C

PANTONE 186C

4、其他特殊说明:

严禁更改任何图案和位置分布!

