

B-Qtech U903-6

B-Qtech Tire Pressure Monitoring System (U903-6) User Manual

Real-Time Tire Pressure and Temperature Monitoring for RVs, Trailers, and Cars

1. INTRODUCTION

The B-Qtech U903-6 Tire Pressure Monitoring System (TPMS) is designed to enhance driving safety by providing real-time monitoring of your vehicle's tire pressure and temperature. This system includes a monitor and six external sensors, suitable for trailers, motorhomes, and cars. It alerts you to abnormal tire conditions, helping to prevent accidents and improve fuel efficiency.

2. PRODUCT OVERVIEW

2.1 Package Contents

The package for the B-Qtech U903-6 TPMS includes the following items:

- TPMS Monitor
- 6 External Sensors
- Monitor Holder
- Cigarette Power Line
- Toolkit (including anti-theft screws and spanner)
- User Manual (this document)



Image: The B-Qtech U903-6 TPMS monitor and the six external sensors.

Products Accessories

U903-6 WF



U903-6 Monitor



Sensor



Holder



Theftproof nut



Cigarette power line



Cigarette lighter



Spanner

Image: All components included in the B-Qtech U903-6 TPMS package, including the monitor, sensors, holder, power line, toolkit, and theftproof nuts.

2.2 Product Features

The B-Qtech U903-6 TPMS offers several key features:

- **LCD Backlit Screen:** Clear display with adjustable angle for optimal visibility in various lighting conditions.
- **Real-Time Monitoring:** Continuously displays tire pressure and temperature for up to 6 tires, updating data every 3 seconds.
- **Multiple Alarm Modes:** Provides visual and audible alerts for 5 types of abnormal conditions:
 - Fast Leak Alarm
 - High-Pressure Alarm
 - Low-Pressure Alarm
 - High-Temperature Alarm
 - Sensor Low Power Alarm
- **User-Set Alarm Values:** Allows customization of high and low-pressure alarm values for different axles to suit specific vehicle requirements.

- **Advanced Chip Technology:** Utilizes the Infineon SP40 chip for lower energy consumption and higher measurement accuracy (0.1 bar pressure accuracy, $\pm 2^{\circ}\text{C}$ temperature accuracy).
- **Durable Sensors:** External sensors are designed to withstand harsh weather conditions (sunlight, rainstorm, snow, haze) and include anti-theft screws.
- **Flexible Installation:** Monitor can be powered via the cigarette lighter port or mounted with 3M adhesive.



Image: Visual representation of key features including tire pressure monitoring, air leakage foresight, increased tire life, wireless operation, tire burst prevention, temperature monitoring, anti-interference, imported chip, self-defense, simultaneous monitoring of six tires, automatic start, abnormal alarming, fuel saving, and real-time monitoring.

Accurate warning driving is more assured

Real-time monitoring your car's tire pressure, temperature, vehicle battery power, automatically update all the data monitoring. Once meet abnormal situation



Real-time detection



To predict gas leakage



3 seconds to update



To prevent the flat tire



Reduce wear



The number of seconds alarm

Image: Illustrates the benefits of accurate monitoring, including real-time detection, prediction of gas leakage, 3-second updates, prevention of flat tires, and reduced tire wear.

3. SETUP AND INSTALLATION

3.1 Sensor Installation

The external sensors are designed for easy installation without professional assistance. Follow these steps:

1. Ensure the TPMS monitor is turned on.
2. Unscrew the original valve cap from each tire.
3. Screw on the anti-theft nut (included in the toolkit) onto the valve stem.
4. Screw the corresponding sensor onto the valve stem. Ensure it is tightened securely to prevent air leakage.
5. Tighten the anti-theft nut against the sensor using the provided spanner.
6. Repeat for all 6 tires. The system will automatically recognize the sensors and display readings.

Note: For the first installation, it is crucial to turn on the monitor first, then install the sensors. This allows the system to recognize changes in tire pressure and activate correctly.

TPMS SENSOR

After the sensor has been tested on "sunshine, rain, snow, rain, haze and other harsh climate simulation tests", it ensures that each sensor in the factory can fully satisfy customers in different regions.



Dear friends, the product parameters have been accurately matched and installed directly. Please do not adjust it at will, thank you!

Image: Highlights the durability of the TPMS sensors, showing them as waterproof, dust-proof, adaptable to extreme weather, designed to prevent accidental detachment, and featuring anti-theft mechanisms.

3.2 Monitor Installation

The monitor offers two primary installation methods:

3.2.1 Cigarette Lighter Installation

The monitor can be directly plugged into your vehicle's cigarette lighter port using the provided cigarette power line and bracket. The screen angle can be adjusted for optimal viewing.

Display installation method

Two installation methods

1. Cigarette lighter installation
2. Bracket installation



Cigarette cigarette installation

Point-and-smoke interface plug and play

Image: Demonstrates the cigarette lighter installation method, showing the monitor plugged into a vehicle's 12V power outlet.

3.2.2 Bracket Mounting (3M Adhesive)

Alternatively, use the 3M adhesive to attach the bracket to the center console or windshield. This method provides flexibility for monitor placement.



Bracket mounting

Supporting 3M gum and loop. It can be installed in any place.
3 M gum can place the monitor Anywhere on instrument platform.
The monitor also can be installed by loop at car roof.

Image: Shows various options for bracket mounting using 3M adhesive, including on the dashboard and near the rearview mirror.

4. OPERATING INSTRUCTIONS

4.1 Display Information

The LCD screen displays real-time tire pressure and temperature for all 6 tires. It supports two pressure units ("PSI", "BAR") and two temperature units ("°C", "°F"). The display also shows an alarm icon when an abnormal condition is detected.

Product Parameters function

Focus on driving safety, escort for you



Image: Diagram illustrating the monitor's display, labeling the alarm icon, tire pressure readings, and pressure units (BAR/PSI).

4.2 Alarm Modes and Settings

The U903-6 TPMS provides 5 distinct alarm modes to alert you to potential tire issues. When an alarm is triggered, the monitor provides both visual (flashing icon and value) and audible alerts. Pressing any button will turn off the audible alarm, but the icon will continue to flash until the problem is resolved.

- **High Tire Pressure Alert:** Triggered when tire pressure exceeds the user-defined high-pressure preset value.
- **Low Tire Pressure Alert:** Triggered when tire pressure falls below the user-defined low-pressure preset value.
- **High Tire Temperature Alert:** Triggered when tire temperature reaches or exceeds the user-defined high-temperature preset value.
- **Quick Air Leakage Alert:** Detects rapid air loss from a tire.
- **Sensor Low Battery Alert:** Indicates that a sensor's battery level is low and requires attention.

Users can customize the high and low-pressure alarm values for each of the three axles (for 6-wheel mode) to match specific vehicle requirements. Factory default settings are: High-pressure alarm: 116 PSI, Low-pressure alarm: 58 PSI, High-temperature alarm: 149°F (65°C).

Your browser does not support the video tag.

Video: Demonstrates the various alarming states of the U903 Tire Pressure Monitoring System, including high pressure, low pressure, high temperature, quick air leakage, and sensor low battery alerts, along with their visual and audible indicators.

5. MAINTENANCE

To ensure the longevity and optimal performance of your B-Qtech TPMS, consider the following maintenance points:

- **Sensor Care:** The sensors are designed to be waterproof and dust-proof. Periodically check them for any physical damage or blockages.
- **Battery Replacement:** When the sensor low battery alert is triggered, replace the sensor battery promptly. Refer to the detailed instructions in the full user manual for battery replacement procedures.
- **Monitor Cleaning:** Clean the monitor screen and casing with a soft, dry cloth. Avoid using abrasive cleaners or solvents.
- **Storage:** If storing the system for an extended period, ensure the monitor and sensors are kept in a cool, dry place.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your TPMS. For more detailed troubleshooting, please refer to the comprehensive user manual (PDF) provided with your product.

6.1 Monitor Not Displaying Tire Pressure Reading After Installation

Solution: For the initial setup, first turn on the monitor, and then install the sensors. The sensors require a change in tire pressure to activate and transmit data to the monitor. Ensure sensors are securely tightened.

6.2 Difficulty Setting Different Alarm Values for Different Vehicles

Solution: The system allows for user-defined alarm value settings. The pressure of different vehicle tires can vary, and the alarm value range supports customization. Refer to the "Alarm Modes and Settings" section in this manual or the full PDF manual for detailed steps on how to adjust these values.

6.3 Using a 6-Sensor System on a 4-Wheel Vehicle

Solution: The 6-wheel and 4-wheel modes can be switched on the U903-6 system. Please refer to the instruction manual for the specific steps to switch between these modes.

7. SPECIFICATIONS

Specification	Value
Brand	B-Qtech
Model Number	U903-6
Item Weight	13.4 ounces

Package Dimensions	7.32 x 5.2 x 2.05 inches
Batteries	1 Lithium Polymer battery required (included)
Pressure Accuracy	0.1 bar
Temperature Accuracy	±2°C
Data Update Frequency	Every 3 seconds

8. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the official B-Qtech website or the contact details provided in the original product packaging. A comprehensive User Manual in PDF format is also available for download at [this link](#).