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› [Tymate](#) /

› [Tymate TM8 Tire Pressure Monitoring System User Manual](#)

Tymate TM8

Tymate TM8 Tire Pressure Monitoring System User Manual

Model: TM8 | Brand: Tymate

INTRODUCTION

The Tymate TM8 Tire Pressure Monitoring System (TPMS) is designed to provide real-time monitoring of your vehicle's tire pressure and temperature, enhancing driving safety and extending tire lifespan. This wireless solar-powered system features external sensors and a colorful display for clear and convenient readings. It is suitable for a wide range of vehicles including sedans, SUVs, MPVs, pickup trucks, and RVs.

WHAT'S IN THE BOX

The Tymate TM8 TPMS package includes the following components:

- TPMS Display Unit
- 4 External Sensors
- User Manual
- USB Charging Cable
- Wrench for sensor installation
- Anti-theft nuts
- Sealing rings



Figure 1: All-Inclusive Package - Everything You Need Included. This image shows the main display unit, four external sensors, a USB charging cable, a small wrench, anti-theft nuts, and sealing rings, all neatly arranged as they would appear in the product box.

SETUP

Setting up your Tymate TM8 TPMS is a straightforward process. Follow these steps for proper installation and initial configuration.

1. Charging the Display Unit

The display unit can be charged via its built-in solar panel or through the USB port. Ensure the unit is fully charged before first use for optimal performance.

Dual Charging Methods



Solar Charging



Type-C charging



Figure 2: Dual Charging Methods. The image illustrates the two charging options for the display unit: solar charging under sunlight and Type-C USB charging, providing flexibility for continuous power.

2. Mounting the Display Unit

Mount the display unit on your vehicle's windshield using the provided bracket. Choose a location that does not obstruct your view of the road but allows for easy visibility of the display.



Figure 3: Tymate TM8 TPMS Display and Sensors. This image provides an overview of the main display unit designed for windshield mounting and the four external tire pressure sensors.

3. Installing the External Sensors

Each sensor is labeled for a specific tire position (e.g., LF for Left Front, RF for Right Front, LR for Left Rear, RR for Right Rear). Install them according to the labels.

1. Unscrew the original valve cap.
2. Screw on the anti-theft nut.
3. Screw on the corresponding sensor tightly.
4. Use the provided wrench to tighten the anti-theft nut against the sensor to secure it.



Figure 4: High-Precision Sensors. This image highlights the compact design of the external sensors and their easy installation onto the tire valve stems, ensuring accurate pressure readings.

For a visual guide on sensor installation and removal, please refer to the video below:



Video 1: Installation and removal of sensors. This video provides a step-by-step demonstration of how to correctly install and remove the external tire pressure sensors, including how to replace the sensor battery.

OPERATING INSTRUCTIONS

Once installed, the Tymate TM8 TPMS will automatically begin monitoring your tire pressure and temperature. The display unit will show real-time data for all four tires.

Display Overview

The vibrant color LCD screen provides clear and easy-to-read tire pressure and temperature data. The display features adaptive backlight for optimal visibility in various lighting conditions, including nighttime driving.

Adaptive Backlight for Night Clarity



Figure 5: Adaptive Backlight for Night Clarity. This image demonstrates the clear visibility of the display unit's readings, including tire pressure and temperature, even in low-light conditions due to its adaptive backlight feature.

Alarm Modes

The system is equipped with six distinct alarm modes to alert you to potential tire issues:

- **High Pressure Alarm:** Alerts when tire pressure exceeds a preset maximum.
- **Low Pressure Alarm:** Alerts when tire pressure drops below a preset minimum.
- **Rapid Air Loss Alarm:** Alerts for sudden and significant pressure drops.
- **High Temperature Alarm:** Alerts when tire temperature exceeds a safe limit.
- **Low Sensor Battery Alarm:** Indicates a sensor battery needs replacement.
- **Lost Sensor Signal Alarm:** Alerts if communication with a sensor is lost.

Real-Time Monitoring for Safe Journeys



Figure 6: Real-Time Monitoring & Multi-Alarm System. This graphic illustrates the comprehensive alarm system of the Tymate TM8, detailing the six types of alerts for various tire conditions, ensuring enhanced safety.

Unit Settings

You can switch between temperature units ($^{\circ}\text{C}$ or $^{\circ}\text{F}$) and pressure units (BAR or PSI) on the display unit. Refer to the detailed user manual included in the package for specific instructions on how to access and change these settings.

MAINTENANCE

Regular maintenance ensures the longevity and accuracy of your Tymate TM8 TPMS.

Sensor Battery Replacement

When the low sensor battery alarm is triggered, replace the battery in the affected sensor. The sensors use CR1632 Lithium batteries.

1. Using the provided tools, screw the sensor cover counter-clockwise to open it.
2. Carefully remove the old battery.

3. Fix in the new CR1632 Lithium battery with the positive (+) side facing up.
4. Examine if the sealing rubber (O-ring) is in good condition. If damaged, replace it with a new one from the provided accessories.
5. Clockwise screw back the sensor cover with the provided tools, ensuring it is tightly sealed.

Refer to Video 1 in the Setup section for a visual demonstration of sensor battery replacement.

General Care

- Keep the display unit clean and free from dust.
- Ensure the solar panel on the display unit is not obstructed to allow for efficient solar charging.
- Periodically check the sensors for any physical damage or loose connections.
- The sensors are designed to be dust-proof and waterproof, and can withstand temperatures from -4°F to 185°F.



Figure 7: Conquer Any Terrain. This image visually confirms the durability of the sensors, showcasing their resistance to dust, water, and extreme temperatures, making them suitable for various driving conditions.

If you encounter issues with your Tymate TM8 TPMS, refer to the common problems and solutions below:

Problem	Solution
Data displayed intermittently	Move the display away from any potential interference sources. If the problem persists, consider equipping a signal repeater (note: TM8 system is not compatible with Tymate Repeater, this solution applies to other compatible systems).
Tire blowout/puncture occurs	TPMS cannot prevent punctures caused by sharp objects or damaged tires, nor can it monitor instantaneous changes. Regular tire inspection is still recommended.
Inaccurate pressure readings	Ensure sensors are tightly installed and correctly paired. The system automatically calibrates to the center tire pressure using sensor pairing for precise reference values. If issues persist, re-pair the sensors following the manual's instructions.
Display unit not charging via solar	Ensure the solar panel is clean and exposed to direct sunlight. If solar charging is insufficient, use the USB charging cable.
Lost sensor signal	Check if the sensor battery is low and replace if necessary. Ensure the vehicle length is less than 20ft, as the TM8 system is designed for this range. Re-pair the sensor if needed.

SPECIFICATIONS

Key technical specifications for the Tymate TM8 TPMS:

- **Model Number:** TM8
- **Brand:** Tymate
- **Material:** Plastic, Metal
- **Screen Size:** 1.5 Inches
- **Pressure Monitoring Range:** 0-87 PSI
- **Pressure Accuracy:** ± 1.5 PSI
- **Temperature Accuracy:** $\pm 3^{\circ}\text{F}$
- **Operating Frequency:** 433.92MHz
- **Sensor Battery Type:** CR1632 Lithium (replaceable)
- **Manufacturer:** Shenzhen Huatai Electronics Co.,Ltd
- **Package Dimensions:** 14.06 x 13.35 x 2.64 inches
- **Item Weight:** 10.86 ounces
- **First Available Date:** November 18, 2024

Universal Compatibility



Figure 8: Universal Compatibility. This image visually represents the wide range of vehicles the Tymate TM8 TPMS is compatible with, from sedans to RVs, highlighting its versatility.

WARRANTY AND SUPPORT

Tymate is committed to providing professional after-sales support. While specific warranty details are not provided in this manual, please refer to your purchase documentation or contact Tymate customer service for warranty information and assistance.

If you have any further questions or need assistance with your Tymate TM8 TPMS, our professional customer support team is always available to help. Contact information can typically be found on the product packaging or the official Tymate website.