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> Tymate TM3 RV Tire Pressure Monitoring System User Manual

Tymate TM3

Tymate TM3 RV Tire Pressure Monitoring System User Manual

Model: TM3 | Brand: Tymate

1. INTRODUCTION

The Tymate TM3 RV 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 helps prevent tire-related accidents, improves fuel efficiency, and extends tire lifespan by alerting you to potential issues.



Figure 1: Tymate TM3 TPMS Display Unit and Sensors

Key Features:

- **Six Alarm Modes:** Includes rapid leak detection, high/low-pressure alerts, high-temperature warnings, and low sensor voltage/signal loss notifications.
- **Effortless Setup:** Sensors are factory-paired with the monitor for immediate use.
- **Efficient Power Usage:** Sensors operate for up to six months on a single CR1632 battery, with a lifespan of up to two years.
- **Multiple Charging Options:** Features solar automatic charging and USB-C port charging.
- **Adaptive Backlight & Color LCD:** Automatic backlight adjustment and a vibrant color display for clear readings in all lighting conditions.
- **Real-time Monitoring:** Precise tire pressure detection from 0 to 87 PSI, suitable for various vehicles including RVs, trailers, trucks, sedans, SUVs, and MPVs.



Figure 2: Overview of Tymate TPMS Features

2. COMPONENTS

The Tymate TM3 RV Tire Pressure Monitoring System package includes the following components:

- 1 x TM3 Display Monitor
- 4 x External Tire Pressure Sensors (pre-labeled for LF, RF, LR, RR)
- 1 x USB Charging Cable
- 1 x Anti-theft Nut Wrench
- 4 x Anti-theft Nuts
- 1 x User Manual



Figure 3: Package Contents and Dimensions

3. SETUP AND INSTALLATION

The Tymate TM3 TPMS sensors are factory-paired with the monitor, simplifying the installation process. Follow these steps for quick setup:

- 1. Charge the Monitor:** Before first use, fully charge the display monitor using the provided USB cable. The monitor also features solar charging for continuous power.
- 2. Install Sensors:**
 - Identify the correct sensor for each tire (LF: Left Front, RF: Right Front, LR: Left Rear, RR: Right Rear).
 - Unscrew the original valve cap from the tire valve.
 - Screw on an anti-theft nut onto the valve stem.
 - Screw the corresponding sensor onto the valve stem until it is hand-tight.
 - Use the anti-theft nut wrench to tighten the anti-theft nut against the sensor, securing it in place.
- 3. Place the Monitor:** Position the display monitor on your dashboard where it has clear visibility and can receive sunlight for solar charging. Ensure it does not obstruct your view or interfere with driving.
- 4. Power On:** The monitor will automatically power on when it detects vibration or when connected to power. It will begin receiving data from the sensors.

Factory Paired, Easy to Install

Repeater is recommended for longer trailer
(total ft ≥ 36)



Figure 4: Installation Overview for Truck and Trailer



Figure 5: Sensor Installation Detail

Note: For longer trailers (exceeding 36 feet), a Tymate repeater (sold separately) is highly recommended to ensure robust signal transmission and consistent data reception.

4. OPERATING INSTRUCTIONS

The Tymate TM3 monitor provides clear, real-time information about your tires. Familiarize yourself with the display and alarm functions.

4.1 Display Overview

The color LCD display shows pressure (PSI), temperature (°F or °C), and battery status for each tire, along with the monitor's battery level.

Real-Time Tire Pressure for Safer Highways

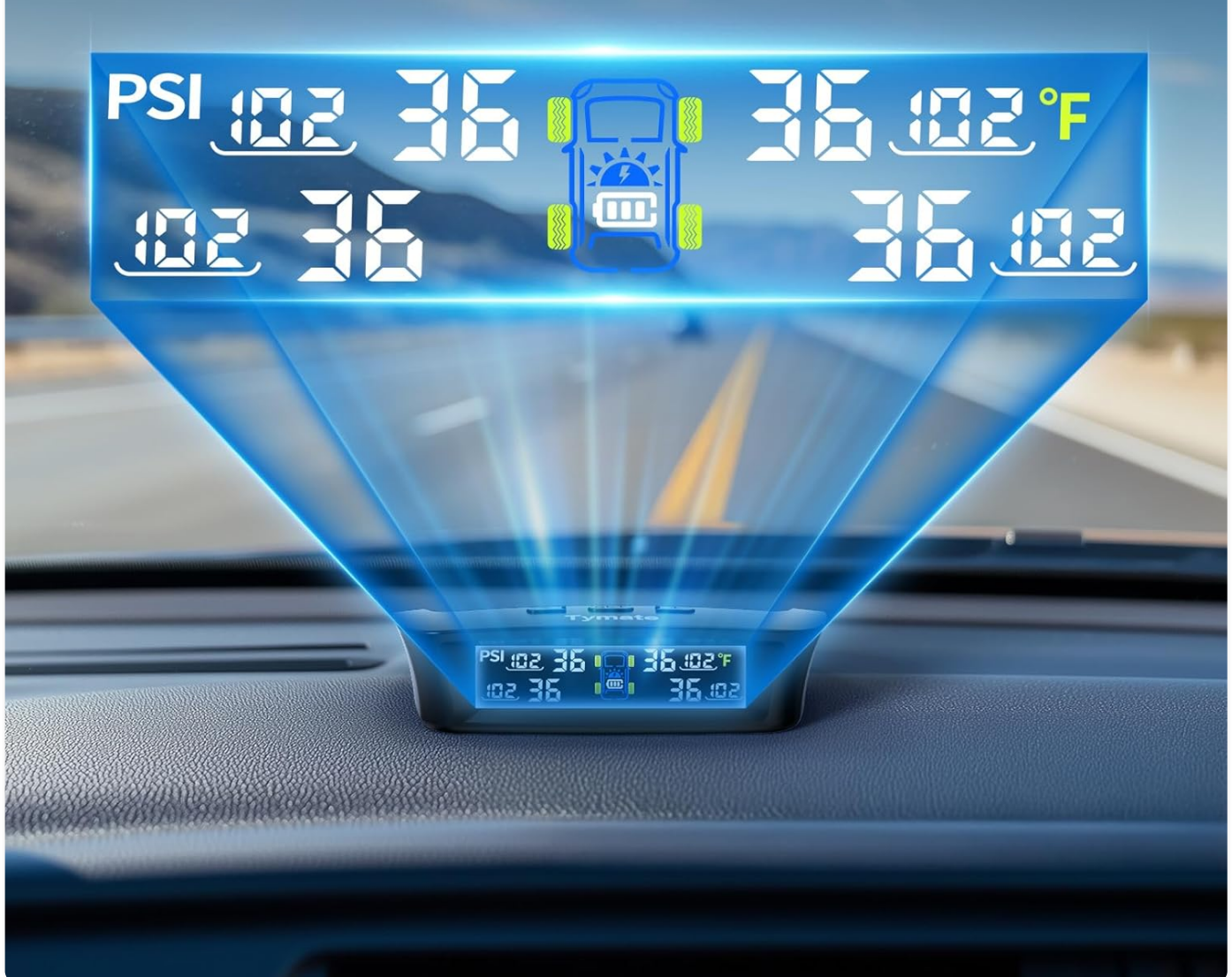


Figure 6: Real-Time Tire Pressure Display

4.2 Alarm Modes

The system is equipped with six alarm modes to alert you to critical tire conditions:

- **Rapid Leak Detection:** Alerts when a sudden, significant drop in pressure occurs.
- **High Pressure Warning:** Alerts when tire pressure exceeds the set high-pressure threshold.
- **Low Pressure Warning:** Alerts when tire pressure falls below the set low-pressure threshold.
- **High Temperature Warning:** Alerts when tire temperature exceeds the set high-temperature threshold.
- **Low Sensor Voltage:** Indicates a low battery level in a specific sensor.
- **Signal Loss:** Alerts if communication with a sensor is lost.

Multiple Monitoring Modes



Figure 7: Multiple Monitoring Modes

4.3 Setting Alarm Thresholds

Upon initial pairing, the system automatically sets the current tire pressure as the reference point. Alarm thresholds are then set within an alarming range of +25% PSI to -15% PSI of this reference pressure. Refer to the detailed instructions in the included user manual for manual adjustment of these thresholds if needed.



Figure 8: Clear Vision at Night with Enhanced LCD



Figure 9: Adaptive Backlight for All Light Conditions

5. POWER AND CHARGING

The Tymate TM3 monitor offers flexible power solutions to ensure uninterrupted operation:

- **Solar Charging:** The integrated solar panel on the top of the monitor allows for automatic charging when exposed to sunlight, reducing the need for frequent manual charging.
- **USB-C Charging:** For situations with insufficient sunlight or for initial charging, the monitor can be charged via its USB-C port using the provided cable. A cigarette lighter adapter (not included) can also be used.

Suitable Vehicle Type



Figure 10: Dual Power Solutions for the Monitor

Dual Power Solutions

Enjoy uninterrupted tire monitoring with solar power and USB Type-C charging options



Figure 11: Solar vs. USB-C Charging Options

6. MAINTENANCE

Proper maintenance ensures the longevity and accuracy of your Tymate TM3 TPMS.

- **Sensor Battery Replacement:** The external sensors use CR1632 batteries. When a low sensor voltage alarm is triggered, replace the battery by carefully unscrewing the sensor cap.
- **Cleaning:** Wipe the monitor and sensors with a soft, dry cloth. Avoid using abrasive cleaners or solvents. The sensors are IP67 waterproof, but avoid prolonged submersion.
- **Storage:** If storing the system for an extended period, ensure the monitor is fully charged and store it in a cool, dry place.



Figure 12: Sensors Built to Withstand Elements

7. TROUBLESHOOTING

If you encounter issues with your Tymate TM3 TPMS, refer to the common problems and solutions below:

Problem	Possible Cause / Solution
Intermittent data display	Move the display away from potential interference sources. If the problem persists, especially with longer trailers, consider installing a signal repeater.
Tire blowout/puncture occurs	TPMS cannot prevent punctures from sharp objects or damaged tires, nor can it monitor instantaneous changes. It provides real-time data but is not a substitute for regular tire inspection.
No need for tire inspection after installation?	Regular tire inspection is still recommended. Perform a comprehensive tire inspection at least monthly and address any faulty tires promptly with a technician.
Sensors not connecting or flashing on display	Ensure sensors are correctly installed and tightened. Check sensor battery levels. If using with a long vehicle, a repeater may be necessary to bridge the signal gap.

8. SPECIFICATIONS

Specification	Detail
Model	TM3
Brand	Tymate
Pressure Range	0-87 PSI
Operating Frequency	433.92 MHz
Sensor Battery Type	CR1632 (up to 2 years lifespan)
Sensor Durability	IP67 Waterproof
Monitor Charging	Solar / USB-C
Display Type	Color LCD with Adaptive Backlight
Item Weight	10.8 ounces
Package Dimensions	6.42 x 5 x 2.28 inches
Country of Origin	China

9. WARRANTY AND SUPPORT

Tymate products are designed for reliability and performance. For specific warranty information, please refer to the warranty card included with your product or visit the official Tymate website. If you require technical assistance or have questions regarding your TM3 TPMS, please contact Tymate customer support.

You can find more information and support resources on the official Tymate brand store:

[Visit the Tymate Store on Amazon](#)