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› Tenpmas RV Tire Pressure Monitoring System TY102 Instruction Manual

Tenpmas TY102

Tenpmas RV Tire Pressure Monitoring System

Model: TY102 | Brand: Tenpmas

1. INTRODUCTION AND OVERVIEW

The Tenpmas RV Tire Pressure Monitoring System (TPMS) TY102 is designed to enhance driving safety and tire longevity for various vehicles, including RVs, trucks, SUVs, and towing medium trailers. This system provides real-time tire pressure and temperature data, alerting you to potential issues before they become critical. It features 6 all-metal sensors, a repeater for extended signal range, and a dual solar/USB charging display.

The TY102 system supports a wide pressure range of 0–116 PSI and offers 6 distinct alarm modes for comprehensive monitoring. Its robust all-metal integrated pure copper sensor design ensures durability and stability in harsh environments, including marine trailers. The detachable mounting bracket allows for flexible placement and easy operation of the display unit.

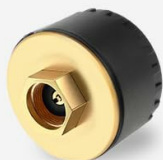
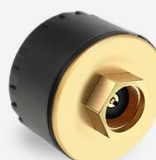
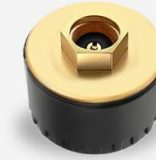


Figure 1: Tenpmas RV Tire Pressure Monitoring System TY102 components.

2. WHAT'S IN THE BOX

Your Tenpmas RV TPMS TY102 package includes the following items:

- TPMS Display Unit

- 6 All-Metal Tire Pressure Sensors (TY102 version)
- Repeater for Long-Distance Signal Transmission
- Detachable Mounting Bracket with Double-Sided Tape
- 6 Locking Nuts
- Wrench for Sensor Installation
- USB Charging Cable (USB-C)
- Instruction Manual



Figure 2: Contents of the Tenpmas TY102 TPMS package.

3. SETUP & INSTALLATION

3.1 Initial Charging

Before first use, fully charge the display unit via the provided USB-C cable. Solar charging will maintain the battery, but initial full charge ensures optimal performance.

3.2 Display Unit Placement

Mount the display unit on your windshield using the detachable bracket and double-sided tape. Ensure it does not obstruct your view. The angle can be adjusted vertically for optimal data reading.

Works for Trailers & Long Trips

Repeater is recommended for longer trailer (max 66ft)



Figure 3: Detachable mounting bracket for flexible display positioning.

3.3 Sensor Installation

All sensors are pre-programmed to specific tire positions (e.g., LF for Left Front, RR for Right Rear). Simply match each sensor to its marked wheel position. Ensure you install sensors on metal valve stems only, as plastic valve stems can be damaged.

1. Remove the existing valve cap from the tire.
2. Screw on the corresponding TPMS sensor firmly.
3. Use the provided wrench to tighten the locking nut against the sensor to prevent theft and ensure a secure fit.

Tire balancing may be required after sensor installation due to the sensor's weight (0.48 ounces).

Removable Bracket Design, for Easy Disassembly

Windshield Installation

Unobstructed Sight No Dashboard Space Taken up



Remove from the Bracket

Disassemble at Any Time
(Remove the monitor for charging or setting)



Figure 4: Sensors are factory paired for plug-and-play functionality.

3.4 Repeater Installation

The repeater extends the signal transmission distance up to 66 feet, crucial for longer vehicles. It is waterproof and connects to a 12V power supply. Install the repeater between the display and the furthest sensor for optimal signal strength. It automatically pairs with the system.

Factory Paired, Easy to Install & Use

Quickly switch between 2/4/6 wheel modes for various scenarios



2-wheel mode Only 2-wheel Trailers



4-wheel mode Only 4-wheel Trailers



6-wheel mode Towing vehicle + 4-wheel Trailers

Figure 5: Repeater ensures strong signal for long-distance monitoring.

3.5 Setup Video Guide

Watch this video for a detailed guide on setting up your TPMS system:

Your browser does not support the video tag.

Video 1: GUTA GT20 Setup Guide Video. This video demonstrates the setup process for a similar TPMS system.

4. OPERATING INSTRUCTIONS

4.1 Real-Time Monitoring

The display unit provides real-time updates on tire pressure (PSI) and temperature for all connected sensors. It supports 2/4/6-wheel modes, allowing flexible switching for various vehicle configurations.

4.2 Alarm Modes

The system features 6 alarm modes to alert you to critical tire conditions:

- **High Pressure Alarm:** Alerts if tire pressure exceeds a safe limit.
- **Low Pressure Alarm:** Alerts if tire pressure drops below a safe limit.
- **High Temperature Alarm:** Alerts if tire temperature exceeds a safe limit.
- **Sensor Loss Alarm:** Alerts if communication with a sensor is lost.
- **Fast Leak Alarm:** Alerts for rapid pressure loss.
- **Slow Leak Alarm:** Alerts for gradual pressure loss.

Audible and visual alerts are provided for each alarm mode.



Figure 6: The TPMS provides 6 types of alerts for enhanced safety.

4.3 Automatic Screen Brightness

The color screen supports 3 levels of automatic brightness adjustment. This ensures clear visibility in various lighting conditions, from bright sunny days to nighttime driving, preventing glare and improving readability.

Accessories List

			
Display	6 sensors	Repeater	Detachable bracket and double-sided tape
			
6 locking nuts	Wrench	USB charging cable	Instruction manual

Figure 7: Automatic brightness adjustment for optimal screen visibility.

5. MAINTENANCE

5.1 Dual Power Supply

The display unit supports both solar and USB charging. Solar charging is efficient for continuous operation during daylight hours. For insufficient sunlight or low battery, use the provided USB-C cable to charge the device. Ensure the device is fully charged via USB-C before initial use.



Figure 8: The display unit can be charged via solar power or USB-C.

5.2 Sensor Battery Replacement

Sensors use CR2032 batteries. When a sensor's battery is low, the system will provide an alert. To replace the battery:

1. Use the provided wrench to open the sensor cover anti-clockwise.
2. Carefully remove the old CR2032 battery.
3. Insert a new CR2032 battery, ensuring the positive pole is facing upwards.
4. Check the waterproof O-ring for any damage. Replace it if broken to maintain water resistance.
5. Screw the sensor cover clockwise with the wrench until secure.

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Video 2: GS02 Tire Pressure Sensor Battery Replacement Instructions. This video demonstrates how to replace the battery in a TPMS sensor.

6. TROUBLESHOOTING

- **Incorrect Pressure Readings:** Ensure sensors are installed on the correct tire positions and tightened securely. Verify the display unit is receiving a strong signal.
- **Signal Loss:** Check the repeater's power supply and placement. Ensure it is positioned optimally between the display and the furthest sensor.
- **Display Not Turning On:** Confirm the display unit is fully charged via USB-C or receiving sufficient sunlight for solar charging.
- **Tire Balancing:** If you experience vibration after sensor installation, tire balancing may be required.
- **Valve Stem Compatibility:** This system is designed for metal valve stems only. Do not install on plastic valve stems to avoid damage.

7. SPECIFICATIONS

Feature	Detail
Brand	Tenpmas
Model	TY102
Item Model Number	TY102-US5
Pressure Range	0-116 PSI (0-130 PSI mentioned in title)
Sensor Type	All-Metal Integrated Pure Copper
Repeater Range	Max 66 feet (20m)
Power Supply	USB / Solar Charging
Display	Color Screen with 3-level Automatic Brightness
Item Weight	14.1 ounces
Package Dimensions	8.9 x 5.5 x 1.8 inches
Batteries	1 Lithium Polymer battery required (included)

The TY102 system is suitable for harsh environments such as high pressure and high/low temperatures, and can withstand seawater corrosion, making it suitable for marine trailers.



Figure 9: The TPMS is designed for durability in diverse environmental conditions.

8. WARRANTY & SUPPORT

For warranty information, technical support, or any inquiries regarding your Tenpmas RV Tire Pressure Monitoring System TY102, please refer to the contact details provided in the product packaging or visit the official Tenpmas website. Keep your purchase receipt for warranty claims.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

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Email

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question