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> MIRAIDON RV Tire Pressure Monitoring System User Manual

MIRAIDON 4S01

MIRAIDON RV Tire Pressure Monitoring System User Manual

Model: 3.7 inch 4S01

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your MIRAIDON RV Tire Pressure Monitoring System (TPMS). This system is designed to enhance driving safety by providing real-time monitoring of tire pressure and temperature for RVs, trailers, and heavy trucks. Please read this manual thoroughly before using the product to ensure proper function and safety.

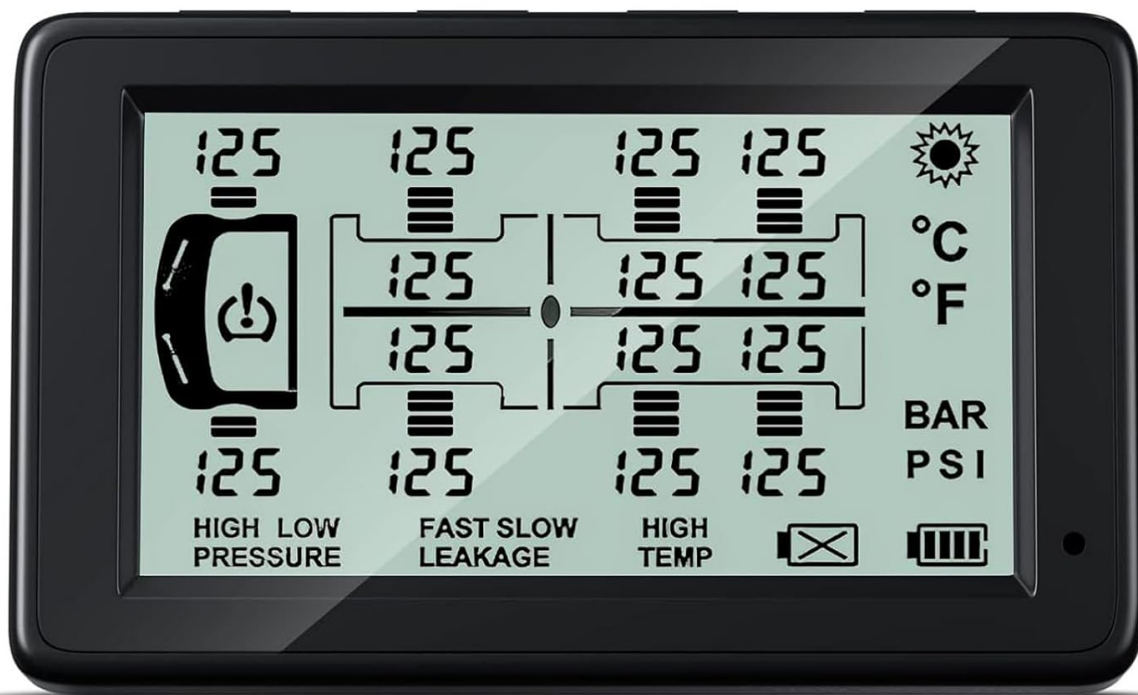


The MIRAIDON TPMS is universally compatible with RVs, trucks, and trailers, supporting up to 14 tires for comprehensive monitoring.

2. WHAT'S IN THE BOX

Carefully unpack all components and ensure everything listed below is present:

- 1 x Monitor
- 1 x USB Charger
- 1 x Wrench
- 1 x Signal Booster (if applicable to your model)
- 1 x Type Monitor Stand
- 4 x Sensors
- 4 x Rubber O-rings
- 4 x Protection Caps
- 4 x Anti-theft Hex Nuts



The package includes the main monitor unit, four external tire pressure sensors, a USB charging cable, and a signal booster for extended range.

3. PRODUCT OVERVIEW

3.1 Key Features

- **Real-Time Accurate Data Transmission:** Utilizes automotive-grade chips for precise, low-latency data transmission. Displays high/low pressure and high temperature for up to 14 tires simultaneously.
- **Wide Pressure and Temperature Range:** Handles pressures up to 176 PSI and temperatures up to 185°F (85°C), suitable for larger vehicles.
- **Easy Installation and Sensor Programming:** External sensors allow for simple screw-on installation. Wireless programming facilitates easy pairing of anti-theft sensors.
- **Five Alarm Systems:** Includes high/low tire pressure alarm, high temperature alarm, fast leak alarm, and sensor low battery alarm. Visual and audible warnings are provided.
- **Solar + USB Charging:** Built-in rechargeable lithium battery with a solar charging panel for extended use (up to 200 hours).
- **Smart Power Management:** Motion sensor automatically enters power-saving mode after 15 minutes of no motion/vibration and wakes up when motion is detected.
- **Signal Booster:** An additional signal booster can be added to overcome distance and electromagnetic interference challenges, extending sensing distance up to 80ft.
- **Durability:** IPX7 waterproof, dust-proof, and anti-theft design for sensors.



The system ensures real-time and accurate data transmission from each tire sensor to the main monitor unit.

4. SETUP

4.1 Charging the Monitor

Before first use, fully charge the monitor using the provided USB cable. The monitor also features a solar charging panel for continuous power during daylight hours.



The monitor supports both solar and USB charging, providing flexible power options for extended use.

4.2 Monitor Placement

Place the monitor on your dashboard using the provided stand. Ensure it has clear line of sight to the sun for optimal solar charging and is easily visible for monitoring while driving. The monitor's motion sensor will automatically activate/deactivate the display.

4.3 Sensor Installation

1. Unscrew the valve cap from the tire valve stem.
2. Screw on the anti-theft hex nut onto the valve stem.
3. Screw the sensor onto the valve stem until it is hand-tight.
4. Use the provided wrench to tighten the anti-theft hex nut against the sensor to secure it.
5. Repeat for all tires. Ensure each sensor is installed on the correct tire position as per your desired configuration (e.g.,

front left, front right).



External sensors are designed for easy and quick installation directly onto the tire valve stems.

4.4 Sensor Programming/Pairing

The sensors are pre-programmed to the monitor. If re-pairing is needed or new sensors are added, follow the wireless programming instructions in the monitor's menu. Typically, this involves holding the sensor near the monitor while in programming mode to establish a connection.



The system supports easy wireless programming for pairing sensors with the monitor.

4.5 Signal Booster Installation (Optional)

For longer vehicles or trailers, a signal booster may be necessary to ensure stable communication between the rear sensors and the monitor. Install the booster in a central location, typically near the rear of the towing vehicle or front of the trailer, to maximize signal range.

SIGNAL BOOSTER FOR LONG TRAILERS



A signal booster is recommended for long trailers to ensure reliable data transmission over distances up to 80 feet.

5. OPERATING INSTRUCTIONS

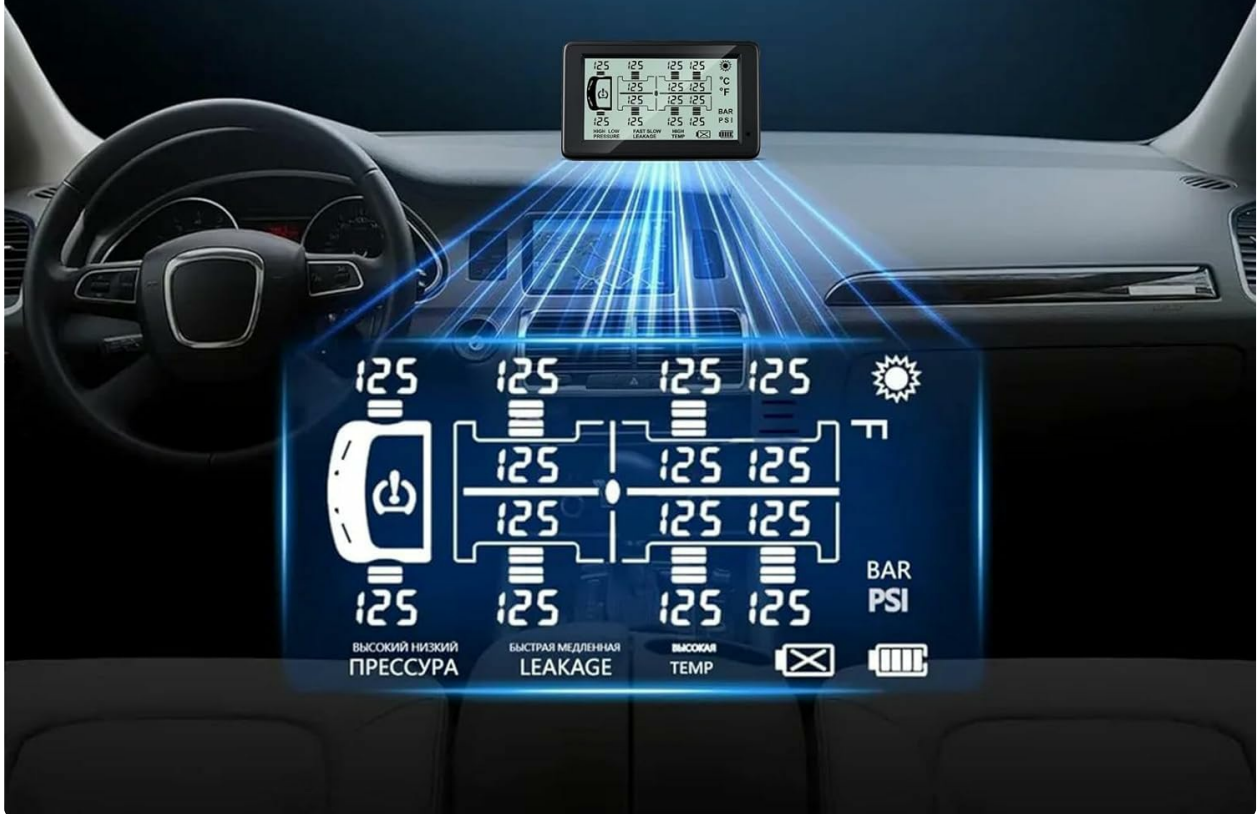
5.1 Real-Time Monitoring

Once powered on, the monitor will display real-time pressure and temperature readings for all connected tires. The display is designed to show up to 14 tires simultaneously, allowing for quick assessment of your vehicle's tire status.

Full Data Display

Real-time Monitoring

Display and Monitor the Real-time Temperature and Pressure of all tires at the Same Time, Keep Your Driving Safe



The monitor provides a clear, real-time display of all tire pressures and temperatures, visible from the driver's seat.

5.2 Alarm Systems

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

- **High Pressure Alarm:** Activates if tire pressure exceeds a preset maximum.
- **Low Pressure Alarm:** Activates if tire pressure drops below a preset minimum.
- **High Temperature Alarm:** Activates if tire temperature exceeds a preset maximum.
- **Fast Leak Alarm:** Alerts immediately to a rapid loss of tire pressure.
- **Sensor Low Battery Alarm:** Indicates when a sensor's battery needs replacement.

When an alarm is triggered, the monitor will emit an audible warning and display a visual alert, indicating which tire is affected and the nature of the issue.

5 ALARM MODESGUARD YOUR DRIVINGSAFETY



Sensor Low
Voltage Alarm



High Pressure
Alarm



Low Pressure
Alarm



High Tempera-
-Ture Alarm



Fast Leak
Alarm



The system features five distinct alarm modes to safeguard your driving safety by alerting to various tire conditions.

5.3 Power Saving Mode

The monitor automatically enters a power-saving mode if no motion or vibration is detected for 15 minutes. This conserves battery life. The screen will automatically wake up and resume monitoring when the vehicle starts moving.

5.4 Hiding Trailer Data

If you are not using a trailer, the system allows you to hide the data for the trailer tires, focusing only on the towing vehicle's tires. Refer to the monitor's menu settings for this option.



The monitor allows for hiding trailer tire data when the trailer is not in use, simplifying the display.

6. MAINTENANCE

6.1 Sensor Battery Replacement

The external sensors use replaceable CR1632 coin cell batteries. When a sensor low battery alarm is triggered, replace the battery promptly to ensure continuous monitoring. To replace, carefully open the sensor casing, remove the old battery, and insert a new CR1632 battery with the correct polarity.

6.2 Cleaning

Clean the monitor and sensors periodically with a soft, dry cloth. Avoid using abrasive cleaners or solvents that could damage the components.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Sensors not connecting or losing connection (especially rear tires)	Out of range; signal interference; low sensor battery; improper programming.	Ensure signal booster is installed and powered for long vehicles. Check sensor battery. Re-program sensors following the manual's instructions. Ensure no large metal objects are blocking the signal path.
Monitor display is dim or difficult to see in bright sunlight	Direct sunlight glare; monitor not fully charged.	Adjust monitor position to reduce glare or place it in a shaded area. Ensure monitor is fully charged via USB or solar.
Inaccurate pressure readings	Sensor not properly installed; sensor malfunction; incorrect tire parameters set.	Ensure sensors are tightly screwed onto valve stems. Verify that the correct tire pressure parameters are set in the monitor's settings. If issue persists, contact support.
Monitor not turning on	Low battery; power button not pressed correctly; unit malfunction.	Charge the monitor fully using the USB cable. Press and hold the power button for a few seconds. If still unresponsive, contact customer support.

8. SPECIFICATIONS

- **Product Dimensions:** 4.53 x 0.91 x 2.76 inches (Monitor)
- **Item Model Number:** 4S01 (for 3.7 inch display)
- **Weight:** 1.2 Pounds
- **Manufacturer:** Miraidon
- **Country of Origin:** China
- **Max Pressure Range:** Up to 176 PSI
- **Max Temperature Range:** Up to 185°F (85°C)
- **Sensing Distance:** Up to 80ft (with booster)
- **Sensor Battery Type:** CR1632 (replaceable)



Key specifications including pressure range, temperature range, and sensing distance are designed for heavy-duty vehicle applications.

9. WARRANTY AND SUPPORT

This MIRAIDON TPMS comes with a **2-year warranty** from the date of purchase. This warranty covers manufacturing defects and ensures the product functions as described under normal use.

If you encounter any problems during use, or require technical assistance, please contact our after-sales support team.

Provide your product model number and a detailed description of the issue for prompt assistance.

For support, please refer to the contact information provided with your purchase or visit the official MIRAIDON website.