

TireMoni TM-240

TireMoni TM-240 (NST) Tire Pressure Monitoring System User Manual

Model: TM-240

1. INTRODUCTION

The TireMoni TM-240 (NST) is an advanced Tire Pressure Monitoring System designed to enhance driving safety, optimize fuel consumption, and extend tire life. By continuously monitoring your vehicle's tire pressures, the system provides real-time information and alerts you to any significant pressure changes, ensuring you are always aware of your tire status. This manual provides essential instructions for the proper installation, operation, and maintenance of your TireMoni TM-240 system.

2. PRODUCT COMPONENTS

The TireMoni TM-240 system typically includes the following components:

- 1 x Display Unit
- 4 x External Sensors (10g each)
- Anti-theft protection for sensors
- User Manual



Image 2.1: TireMoni TM-240 Display Unit and Sensors. This image shows the main display unit and the four external tire pressure sensors included with the system.

3. KEY FEATURES

The TireMoni TM-240 offers a range of features designed for reliable tire pressure monitoring:

- **4 External Sensors:** Lightweight (10g/sensor) and equipped with replaceable batteries.
- **Wide Measurement Range:** Monitors tire pressure from 0 to 12.5 bar with an accuracy of 0.14 bar.
- **Adjustable Warning Thresholds:** Allows separate adjustment of low-pressure (Lo-P) and high-pressure (Hi-P) warning thresholds for each axle.
- **Adjustable Temperature Alert:** Features an adjustable high-temperature (Hi-T) alert threshold.
- **Continuous Display:** Provides a permanent display of all four current tire pressures.
- **Expandable System:** Can be expanded to monitor up to 10 sensors/wheels.
- **Visual and Audible Alerts:** Notifies the user of pressure loss or other issues with a backlit display and an audible 'beep' signal.
- **Quick Installation:** Designed for easy installation, typically within 5 minutes, without requiring initialization.

4. INSTALLATION GUIDE

Follow these steps for proper installation of your TireMoni TM-240 system:

4.1 Sensor Installation

1. Ensure your tires are at the recommended pressure before installing the sensors.
2. Remove the existing valve caps from your tire valve stems.
3. Screw each TireMoni sensor onto the corresponding tire valve stem. Ensure they are tightened securely to

prevent air leakage.

4. Install the anti-theft rings if desired, following the instructions provided with the anti-theft kit.



Image 4.1: TireMoni External Sensors. This image displays the four external sensors that screw onto the tire valve stems.

4.2 Display Unit Placement

1. Place the display unit in a location within your vehicle where it is easily visible to the driver but does not obstruct the view of the road.
2. Ensure the display unit receives power, typically via a 12V car adapter or internal battery.
3. For vehicles longer than 4.5 meters (e.g., some caravans or large vans), a radio booster/amplifier may be required to ensure reliable signal transmission from all sensors to the display unit.

The system is designed for quick setup and does not require initial programming or initialization after sensor installation.

5. OPERATING INSTRUCTIONS

Once installed, the TireMoni TM-240 continuously monitors and displays your tire pressures.

5.1 Reading the Display

The display unit shows the current pressure for all four tires simultaneously. The layout typically represents the vehicle's tire configuration. Units (e.g., bar) are indicated on the display.



Image 5.1: TireMoni TM-240 Display in Operation. This image shows the display unit actively showing tire pressure values for all four wheels.

5.2 Adjusting Warning Thresholds

The system allows you to set custom warning thresholds for low pressure (Lo-P), high pressure (Hi-P), and high temperature (Hi-T). Refer to the specific buttons and menu options on your display unit for detailed instructions on how to access and modify these settings. It is recommended to set these thresholds based on your vehicle manufacturer's specifications and your driving conditions.

6. ALERTS AND WARNINGS

The TireMoni TM-240 system is designed to alert you to critical tire conditions:

- **Visual Warning:** The display unit will illuminate or flash, often highlighting the affected tire, when a pressure or temperature threshold is exceeded.
- **Audible Warning:** An audible 'beep' signal will sound to draw your immediate attention to the warning.

Upon receiving an alert, safely pull over and inspect your tires. Address any issues before continuing your journey.

7. MAINTENANCE

7.1 Sensor Battery Replacement

The external sensors are equipped with replaceable batteries. When a sensor's battery is low, an indicator will typically appear on the display unit. To replace a sensor battery:

1. Carefully unscrew the sensor from the tire valve stem.
2. Open the sensor casing (refer to the sensor design for specific opening mechanism).
3. Replace the old battery with a new one of the correct type (e.g., CR1632, check sensor specifications).
4. Close the sensor casing securely and re-install it on the tire valve stem.

7.2 General Care

The sensors are designed to be robust for both summer and winter tire use. Periodically check the sensors for any signs of damage or wear. Keep the display unit clean and free from dust.

8. TROUBLESHOOTING

If you encounter issues with your TireMoni TM-240 system, consider the following:

- **No Sensor Readings:** Check if the sensors are securely tightened on the valve stems. Ensure sensor batteries are not depleted. For longer vehicles, verify if a radio booster is needed and properly installed.
- **Inaccurate Readings:** Ensure sensors are correctly installed on their designated tires. Compare readings with a reliable manual pressure gauge.
- **Display Not Powering On:** Check the power connection to the display unit or replace its internal battery if applicable.

If problems persist, please contact customer support for further assistance.

9. TECHNICAL SPECIFICATIONS

Brand	TireMoni
Model	TM-240
Number of Sensors	4 (expandable up to 10)
Sensor Weight	10 g per sensor
Measurement Range	0 to 12.5 bar
Accuracy	0.14 bar
Adjustable Thresholds	Low Pressure (Lo-P), High Pressure (Hi-P), High Temperature (Hi-T)

10. WARRANTY INFORMATION

Specific warranty details for the TireMoni TM-240 are not provided in the available product information. Please refer to the product packaging or contact the retailer/manufacturer directly for comprehensive warranty terms and conditions.

11. CUSTOMER SUPPORT

For technical assistance, troubleshooting beyond this manual, or inquiries regarding your TireMoni TM-240 system, please contact the manufacturer or your point of purchase. Contact information may be available on the product packaging or the official TireMoni website.