

Avutrel T19-10

Avutrel TPMS T19-10 Tire Pressure Monitoring System User Manual

Model: T19-10

1. INTRODUCTION

Thank you for choosing the Avutrel TPMS T19-10 Tire Pressure Monitoring System. This system is designed to provide real-time monitoring of your vehicle's tire pressure and temperature, enhancing driving safety and optimizing tire performance. This manual will guide you through the installation, operation, and maintenance of your new TPMS.

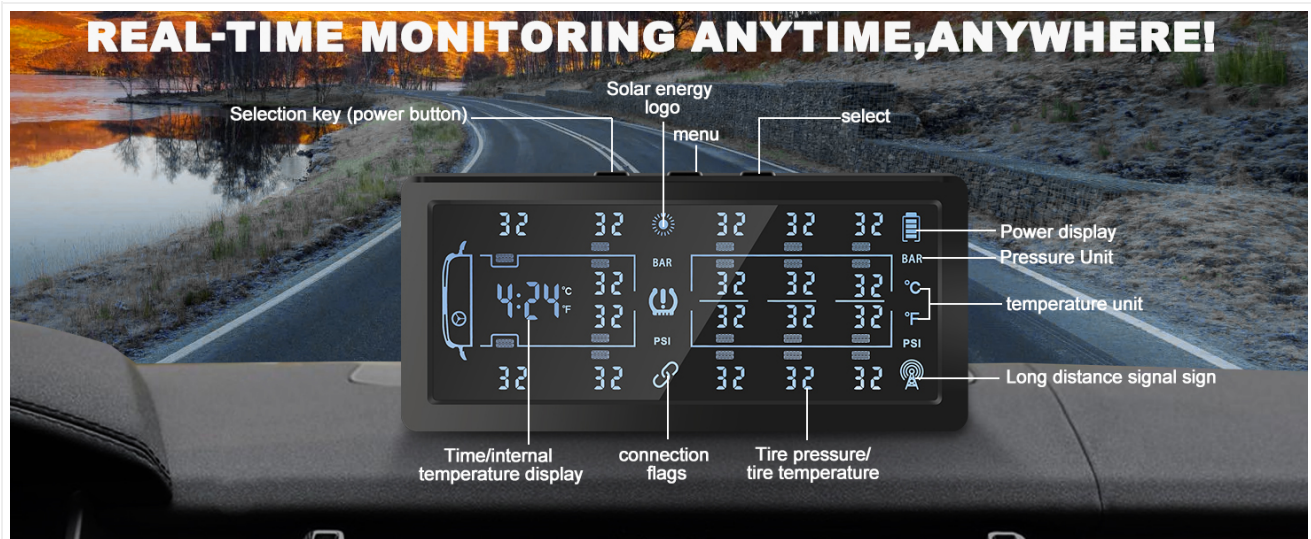


Figure 1: The Avutrel TPMS display unit provides continuous real-time monitoring of tire pressure and temperature, ensuring driver awareness and safety.

2. SAFETY INFORMATION

- Always ensure tires are properly inflated according to vehicle manufacturer specifications.
- Do not attempt to install or repair the system while driving.
- Regularly check tire pressure with a calibrated gauge, even with the TPMS installed.

- If an alarm sounds, safely pull over and inspect your tires.
- Keep sensors and display unit away from extreme heat or direct sunlight for prolonged periods when not in use.
- This device is an aid and does not replace regular tire maintenance.

3. PACKAGE CONTENTS

Before installation, please verify that all components are present:



Figure 2: The package includes the main monitor, 10 external sensors, 10 anti-theft nuts, a specialized wrench, a USB charging cable, a signal booster, and this instruction manual.

- 1 x TPMS Monitor Display Unit
- 10 x External Sensors
- 10 x Anti-theft Nuts
- 1 x Wrench
- 1 x USB Charging Cable
- 1 x Signal Booster (for extended range)
- 1 x Double-sided Adhesive Tape
- 1 x Instruction Manual

4. SETUP AND INSTALLATION

4.1 Display Unit Placement

Place the display unit on your dashboard using the provided double-sided adhesive tape. Ensure it is in a position that does not obstruct your view of the road and allows for optimal solar charging.

4.2 Sensor Installation

Before installing the sensors, ensure the display unit is powered on. Follow these steps for each tire:

1. Unscrew the original valve cap from the tire valve.
2. Screw on the anti-theft nut onto the valve stem.
3. Screw the corresponding external sensor onto the valve stem. Ensure the sensor is correctly matched to the tire position (e.g., FL for Front Left).
4. Using the provided wrench, tighten the anti-theft nut against the sensor to secure it and prevent theft.
5. Check for any air leakage by spraying soapy water around the valve stem and sensor connection.



Figure 3: Detailed steps for installing the external tire pressure sensors.

4.3 Signal Booster Installation (Optional)

For larger vehicles or those experiencing signal interference, install the signal booster. Connect it to a 12V power source and place it strategically to ensure optimal signal reception from all sensors to the display unit.



Figure 4: The signal booster extends the transmission range for stable connection in large vehicles.

5. OPERATING INSTRUCTIONS

5.1 Powering On/Off and Charging

- **Intelligent On/Off:** The system automatically activates when it detects vehicle movement and enters a low-power sleep mode after 5 minutes of parking.
- **Solar Charging:** The display unit features a solar panel for continuous charging during daylight hours.
- **USB Charging:** For charging in low light conditions or when the battery is low, connect the display unit to a USB power source using the provided cable.



Figure 5: Intelligent On/Off functionality for power efficiency.



Figure 6: Dual charging options: solar and USB.

5.2 Display Interface

The 7-inch HD LCD color screen provides clear readings of all tire data. It features an automatic backlight for optimal visibility in various lighting conditions.



Figure 7: The 7-inch HD LCD color screen with automatic backlight.

The display shows individual tire pressure and temperature, battery status, and signal strength. Refer to the diagram below for a detailed overview of the display elements:



Figure 8: Detailed view of the display unit's indicators.

5.3 Alarm Functions

The system provides multiple alarm modes to alert you to potential tire issues:

- **Air Leakage Alarm:** Alerts you to rapid air loss.
- **High Pressure Alarm:** Warns if tire pressure exceeds a safe limit.
- **Low Pressure Alarm:** Indicates if tire pressure drops below a safe limit.
- **High Temperature Alarm:** Notifies you if tire temperature becomes excessively high.
- **Sensor Lost Signal Alarm:** Alerts if a sensor loses connection with the display unit.
- **Sensor Low Power Alarm:** Indicates a sensor battery is low and needs attention.

5.4 Vehicle Compatibility

The Avutrel TPMS T19-10 is adjustable to support various vehicle configurations, including 4, 6, 8, or 10 wheels. This makes it suitable for a wide range of vehicles from family cars to RVs and commercial trucks.



Figure 9: Broad vehicle compatibility for diverse applications.

5.5 Video Demonstration

Watch this video for a visual guide on operating the Avutrel TPMS T19-10 display unit and its features.



Video 1: Demonstration of the Avutrel TPMS T19-10 display unit operation.

6. MAINTENANCE

- **Sensor Durability:** The external sensors are made of pure copper, ensuring reliable thermal conductivity and resistance to corrosion. They are designed to withstand extreme temperatures and various weather conditions.



Figure 10: Pure copper sensors for enhanced durability and performance.

- **Cleaning:** Wipe the display unit and sensors with a soft, dry cloth. Avoid using abrasive cleaners or solvents.
- **Battery Life:** The display unit's solar charging capability ensures a long battery life. Sensors have replaceable batteries (refer to specific sensor model for battery type and replacement instructions, not provided in this general manual).

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Sensor losing air continuously (as reported by some users)	Improper installation, damaged valve stem, faulty sensor.	<ul style="list-style-type: none">• Re-install the sensor carefully, ensuring the anti-theft nut is tightened correctly.• Check the valve stem for any damage or cracks.• Apply soapy water to the sensor and valve stem to identify the exact leak point.• If the sensor is faulty, contact customer support for a replacement.

Problem	Possible Cause	Solution
No display readings / "00" or "OFF" shown	Sensors not paired, low sensor battery, display unit not powered on, signal interference.	<ul style="list-style-type: none"> • Ensure the display unit is powered on and charged. • Drive the vehicle for a few minutes to allow sensors to transmit data. • Check sensor batteries (if applicable, for internal sensors) or ensure external sensors are properly installed. • If using a signal booster, ensure it is correctly installed and powered. • Refer to the pairing instructions (if provided separately) to re-pair sensors.
Inaccurate pressure/temperature readings	Sensor malfunction, extreme environmental conditions, incorrect unit settings.	<ul style="list-style-type: none"> • Verify readings with a reliable manual tire gauge. • Check the display unit's settings for correct pressure (PSI/BAR) and temperature (°C/°F) units. • If discrepancies persist, a sensor may be faulty and require replacement.

8. SPECIFICATIONS

Feature	Detail
Model Number	T19-10
Brand	Avutrel
Display	7-inch HD LCD Color Screen with Automatic Backlight
Charging Options	Solar and USB
Sensor Type	External, Pure Copper Construction
Wheel Configuration Support	Adjustable for 4, 6, 8, or 10 wheels
Pressure Range	0-13 BAR / 0-188 PSI (Universal Tire Pressure)
Alarm Modes	Air Leakage, High Pressure, Low Pressure, High Temperature, Sensor Lost Signal, Sensor Low Power
Item Weight	463 g
Product Dimensions (L x W x H)	18 x 16 x 4 cm
ASIN	B0FB3T14GC

9. WARRANTY AND SUPPORT

Avutrel products come with a standard manufacturer's warranty. For specific warranty details, please refer to the warranty card included in your package or visit our official website. If you encounter any issues or have questions regarding your TPMS, please contact our customer support team. Our team is dedicated to providing timely and targeted responses to ensure your satisfaction.

Customer Support: [Insert Customer Support Contact Information Here, e.g., email, phone, website]