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> Airpuxem TPMS Tire Pressure Monitoring System User Manual - Model TYH11-EU6-ZQ

## Airpuxem TYH11-EU6-ZQ

# Airpuxem TPMS Tire Pressure Monitoring System User Manual

Model: TYH11-EU6-ZQ

## 1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Airpuxem TPMS Tire Pressure Monitoring System. Please read this manual thoroughly before using the product to ensure proper function and safety.

The Airpuxem TPMS is designed to provide real-time tire pressure and temperature monitoring, enhancing driving safety by alerting you to potential tire issues. It features high-precision measurements, support for 2-wheel and 4-wheel modes, and various alarm functions.

## 2. PACKAGE CONTENTS

Verify that all items are present in your package:

- TPMS Monitor Display (3.5-inch)
- 4 External Tire Pressure Sensors
- Removable Mounting Bracket
- USB Type-C Charging Cable
- User Manual
- Wrench and Anti-theft Nuts (for sensors)



Image 1: Airpuxem TPMS Monitor and four external sensors. The monitor displays tire pressure and temperature for all four wheels, along with battery status and signal strength.

### 3. SPECIFICATIONS

Feature	Description
Model	TYH11-EU6-ZQ
Display Size	3.5 inches
Pressure Accuracy	$\pm 0.01$ bar
Pressure Range	0.2 - 6.0 bar / 3 - 87 psi
Temperature Units	$^{\circ}\text{C}$ / $^{\circ}\text{F}$
Waterproof Rating (Sensors)	IP67
Charging Options	Solar, USB Type-C
Monitor Dimensions	9.5 x 4 x 5.5 cm
Item Weight	220 g

## 4. SETUP AND INSTALLATION

### 4.1 Initial Charging

Before first use, charge the TPMS monitor for at least 2 hours using the provided USB Type-C cable. This ensures the internal battery is sufficiently charged for operation.

## 6 Real Time Alarm Modes & 2 Types of Charging

**Fast Leak Alarm**      **High Pressure Alarm**      **High Temperature Alarm**

**Loss of Sensor Alarm**      **Sensor Low Battery Alarm**      **Sensor Failure Alarm**

**Solar Charging**

**USB Charging (Type-C)**

**Before using the TPMS for the first time, be sure to charge it for two hours using the USB included with the product.**

Image 2: The TPMS monitor supports both solar charging via its integrated panel and USB Type-C charging for initial setup or when solar power is insufficient.

### 4.2 Sensor Installation

1. Identify each sensor: They are marked for specific wheel positions (e.g., FL for Front Left, FR for Front Right, RL for Rear Left, RR for Rear Right).

2. Unscrew the original valve cap from the tire valve.
3. Screw on the anti-theft nut (if using) onto the tire valve stem.
4. Screw the corresponding sensor onto the tire valve stem until it is hand-tight.
5. Tighten the anti-theft nut against the sensor using the provided wrench.
6. Repeat for all four tires.



Image 3: Detail of an IP67 waterproof sensor, highlighting its robust design with internal pure copper components for reliable performance in various weather conditions.

### 4.3 Monitor Placement

The monitor comes with a removable bracket, offering two primary placement options:

- **Windshield Mounting:** Attach the bracket to the windshield using the suction cup.
- **Dashboard Mounting:** Place the bracket on the dashboard.

Adjust the angle of the monitor (up to 45° tilt) for optimal visibility. The monitor can be easily removed from the bracket for USB charging or parameter adjustments.

## Removable Bracket & Two Mounting Options

45° Tilt for see and safe to drive



Image 4: The TPMS monitor can be mounted on the windshield or dashboard using its removable bracket, allowing for flexible positioning and easy removal.

## 5. OPERATING INSTRUCTIONS

### 5.1 Power On/Off and Automatic Operation

The monitor features an automatic vibration detection function. It will automatically power on when vibration is detected (e.g., when the vehicle starts moving) and enter sleep mode after 5 minutes of no vibration. Do not manually turn off the display when this feature is active to ensure continuous

monitoring.

## Automatic Vibration Detection & Sleep Mode

Wake up the display by vibration and enter sleep mode after 5 minutes when no vibration is detected.



**Please do not manually turn off the display when using this feature.**

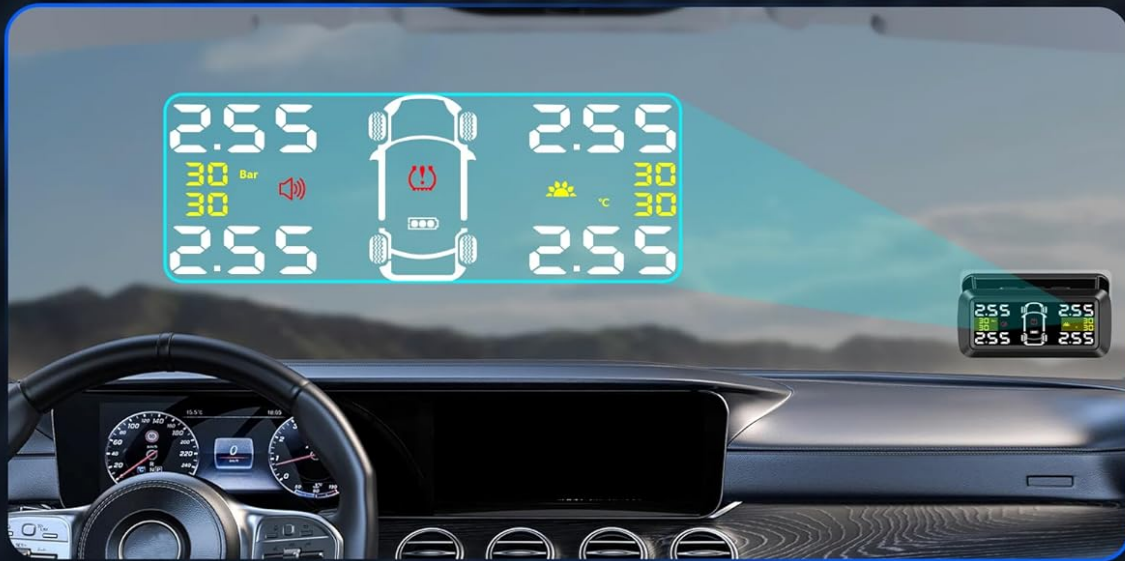
*Image 5: The monitor automatically activates upon detecting vibration and enters sleep mode after 5 minutes of inactivity, conserving power.*

### 5.2 Display and Brightness Adjustment

The 3.5-inch LCD color screen displays real-time tire pressure and temperature. You can adjust the screen brightness to one of three levels (High, Medium, Low) to suit different driving environments and lighting conditions.

## 3.5 Large Size LCD Colour Screen

Value is accurate 0.01, Safe and Reliable



## 3 Types of Screen Brightness Adjustment

Adapts to different driving environments



Image 6: The 3.5-inch LCD screen offers three brightness settings (High, Medium, Eye Protection) for optimal visibility in various driving conditions.

### 5.3 2-Wheel / 4-Wheel Mode Switching

The system supports both 2-wheel and 4-wheel modes, making it suitable for small 2-wheel trailers and 4-wheel vehicles. If only two sensors are installed (e.g., for a 2-wheel trailer), switch the monitor to 2-wheel mode to prevent unnecessary alarms. The maximum effective distance between a sensor and the monitor for a trailer is less than 19.7 meters (approximately 64.6 feet).

# 2-Wheel/4-Wheel Mode Switching

Separate Setting of Alarm Values For Front And Rear Wheels  
(Pressure Range:0.2-6.0 Bar / 3-87 PSI)



:Working Distance<19.7ft



Image 7: The system supports both 2-wheel (trailer) and 4-wheel (car) modes, allowing for flexible use across different vehicle types.

## 5.4 Setting Alarm Values

The TPMS allows for individual adjustment of high and low pressure alarm values for front and rear wheels. This feature accommodates vehicles that require different pressure settings for different axles. You can also select between Celsius (°C) and Fahrenheit (°F) for temperature display. The pressure range for settings is 0.2-6.0 bar or 3-87 psi.

The system features six distinct alarm modes:

- Fast Leak Alarm
- High Pressure Alarm
- High Temperature Alarm
- Loss of Sensor Alarm

- Sensor Low Battery Alarm
- Sensor Failure Alarm

Refer to the on-screen menu for detailed instructions on how to navigate and adjust these settings.

## 6. MAINTENANCE

### 6.1 Sensor Care

The sensors are IP67 waterproof, meaning they are protected against dust and temporary immersion in water. You do not need to remove them when washing your car. Periodically check the sensors for any physical damage or loose connections.

Sensor batteries (CR1632) are replaceable. Refer to the troubleshooting section or contact support for instructions on battery replacement.

### 6.2 Monitor Cleaning

Clean the monitor display with a soft, dry cloth. Avoid using abrasive cleaners or solvents that could damage the screen or casing.

### 6.3 Charging

While the monitor supports solar charging, it is recommended to periodically charge it via the USB Type-C port, especially during periods of low sunlight or frequent use, to ensure optimal battery life.

## 7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Monitor not turning on automatically.	Vibration detection off, low battery.	Ensure vibration detection is enabled. Charge the monitor via USB-C.
No tire pressure reading.	Sensor not installed correctly, sensor battery low/dead, sensor failure, out of range.	Re-install sensor. Check sensor battery. Replace sensor if faulty. Ensure monitor is within range of sensors.
Inaccurate pressure readings.	Sensor not fully tightened, incorrect unit setting.	Ensure sensors are securely tightened. Verify pressure unit (bar/psi) setting.
Frequent alarms.	Alarm thresholds set too narrow, actual tire issue.	Adjust high/low pressure alarm values. Check actual tire pressure and condition.
Monitor battery drains quickly.	Insufficient solar charging, high brightness setting.	Charge via USB-C. Reduce screen brightness. Ensure solar panel is clean and exposed to sunlight.

## 8. WARRANTY AND SUPPORT

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This Airpuxem TPMS system comes with a **12-month warranty** from the date of purchase. If you encounter any issues with the system or require assistance, please contact customer support via the email address provided in the product packaging or original instructions. When contacting support, please provide your model number (TYH11-EU6-ZQ) and a detailed description of the issue.