

OBEST MT001

OBEST Motorcycle TPMS Tire Pressure Monitoring System MT001 User Manual

Model: MT001

1. INTRODUCTION

The OBEST Motorcycle TPMS (Tire Pressure Monitoring System) is designed to provide real-time monitoring of your motorcycle's tire pressure and temperature. This system helps enhance riding safety by alerting you to abnormal tire conditions, improving fuel efficiency, and extending tire life. It features a high-brightness LCD display, external sensors, and an IP67 waterproof rating for reliable performance in various weather conditions.



Figure 1: OBEST Motorcycle TPMS Display Unit and External Sensors

2. PRODUCT FEATURES

- **High-Performance Chip:** Equipped with an advanced chip for faster response, stable signal transmission, reduced error range, and lower power consumption.
- **High-Brightness LCD Display:** Ensures clear visibility of air pressure and temperature data in various lighting conditions (daytime, daylight, rainy day, night).
- **Real-Time Monitoring:** Continuously monitors tire pressure and temperature for both tires simultaneously, detecting changes within seconds.
- **Multi-functional Sensor:** In addition to tire pressure monitoring, the unit includes a clock, vehicle inclinometer, and QC3.0 fast charging port.
- **IP67 Waterproof Rating:** Designed to resist sand, dust, and water ingress, making it suitable for diverse weather conditions. It is also heat and cold resistant.
- **QC3.0 Fast Charging:** Integrated QC3.0 port allows for quick charging of mobile phones, tablets, and other compatible devices.

TIRE PRESSURE MONITORING - FIVE MAJOR FUNCTIONS

TAKE PREVENTIVE MEASURES TO ENSURE SAFE DRIVING EVERY DAY



Figure 2: Key Functions of the TPMS

3. PACKAGE CONTENTS

Please verify that all items listed below are included in your package:

- 1 x Motorcycle Tire Pressure Monitoring System (Host/Display Unit)
- 1 x Support (Mounting Bracket)
- 2 x External Sensors (Front Wheel 'FW' and Rear Wheel 'RW')
- 2 x Support Covers
- 2 x Nuts
- 1 x Wrench
- 1 x Screwdriver

inventory



Figure 3: Package Inventory

4. SETUP AND INSTALLATION

4.1 Mounting the Display Unit

1. Attach the mounting bracket to your motorcycle's handlebars. Ensure it is securely fastened and positioned for optimal viewing without obstructing your ride.
2. Slide the display unit onto the mounting bracket. Secure it using the provided screws and nuts.
3. Connect the power cable to the display unit and route it appropriately to a power source on your motorcycle.

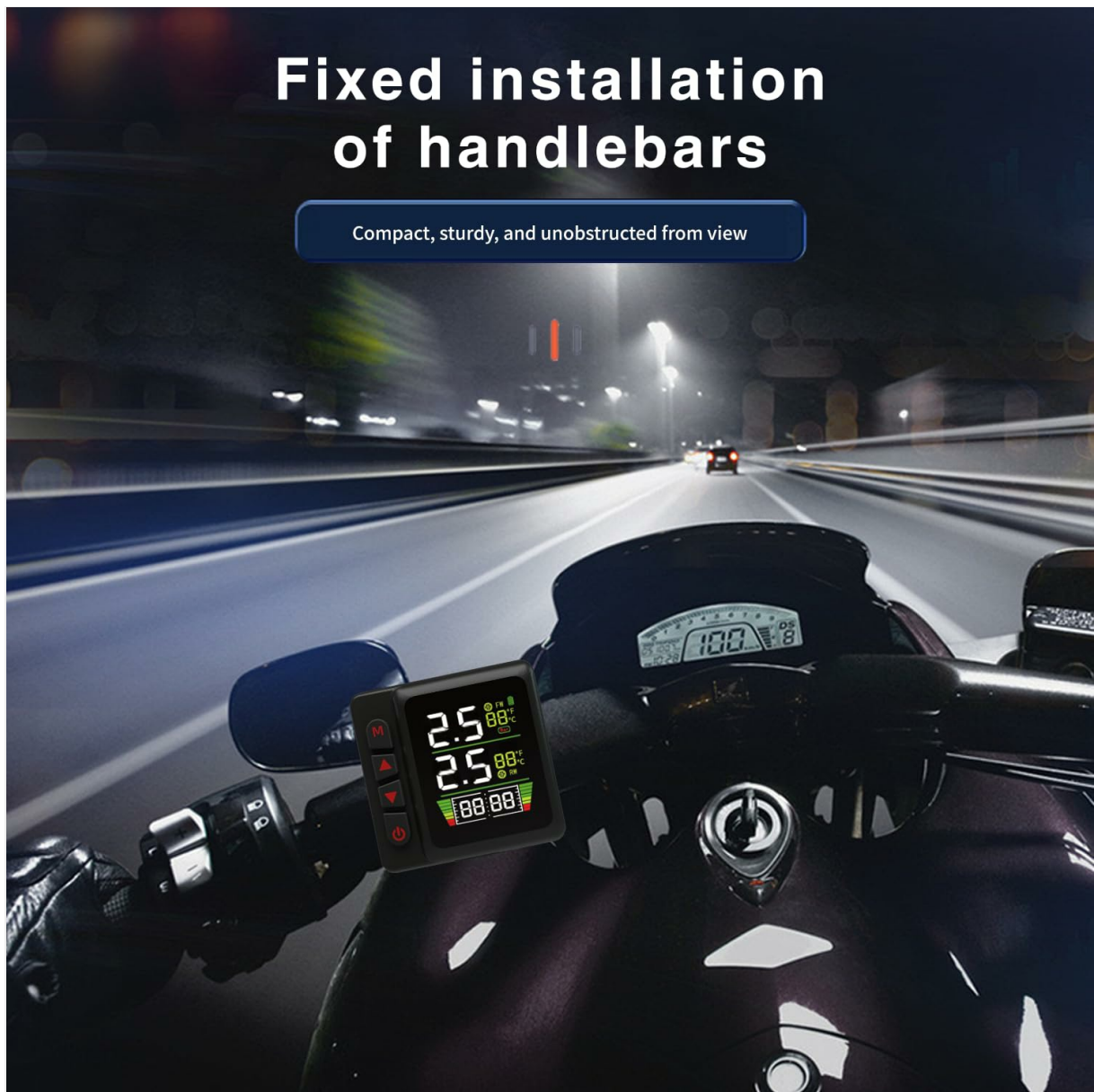


Figure 4: Handlebar Installation of the Display Unit

4.2 Installing External Sensors

The system includes two external sensors, labeled 'FW' for the front wheel and 'RW' for the rear wheel. Install them as follows:

1. Ensure your tires are at the recommended pressure before installation for accurate baseline readings.
2. Unscrew the original valve caps from your motorcycle's tire valves.
3. Screw the 'FW' sensor onto the front tire's valve stem and the 'RW' sensor onto the rear tire's valve stem. Tighten them using the provided wrench to prevent theft and ensure a secure seal.
4. The sensors will automatically begin transmitting data to the display unit once installed and the motorcycle is in motion or the system is powered on.

Note: The sensors are designed to be anti-theft and waterproof. Ensure they are properly tightened.

5. OPERATING INSTRUCTIONS

5.1 Display Overview

The LCD display provides comprehensive information at a glance:

- **Front Tire Pressure (FW):** Displays the current pressure of the front tire.
- **Rear Tire Pressure (RW):** Displays the current pressure of the rear tire.
- **Front Tire Temperature (FW):** Displays the current temperature of the front tire.
- **Rear Tire Temperature (RW):** Displays the current temperature of the rear tire.
- **Slope Display:** Indicates the vehicle's inclination.
- **Time Display:** Shows the current time.
- **Battery Indicators:** Shows battery levels for the display unit and sensors.



Figure 5: Detailed Display Information

5.2 Button Functions

The display unit features several buttons for navigation and settings:

- **'M' Button:** Typically used to enter menu settings or confirm selections.
- **Up Arrow Button:** Used to increase values or navigate upwards in menus.
- **Down Arrow Button:** Used to decrease values or navigate downwards in menus.
- **Power Button:** Used to power the unit on/off.

Refer to the on-screen prompts for specific button functions during setup or alarm conditions.

5.3 Real-Time Monitoring and Alarms

The system continuously monitors tire data. In case of abnormal pressure or temperature, the display will provide real-time warning feedback, often accompanied by an audible alarm and flashing screen prompts. This includes warnings for:

- Low tire pressure
- High tire pressure
- High tire temperature
- Rapid air leakage



Figure 6: Real-Time Tire Data Monitoring

5.4 QC3.0 Fast Charging

The display unit is equipped with a QC3.0 fast charging port. To use this feature:

1. Locate the USB charging port on the side of the display unit.
2. Connect your compatible mobile phone, tablet, or other device using a USB cable.
3. Ensure the motorcycle's ignition is on for power delivery.

QC3.0 FAST CHARGING

EASILY CHARGE MOBILE PHONES, TABLETS, AND OTHER DEVICES QUICKLY WITHOUT WORRYING ABOUT LOW BATTERY.



Figure 7: QC3.0 Fast Charging Feature

6. MAINTENANCE

- **Waterproof Cover:** Always ensure the charging port's waterproof cover is securely closed, especially before washing the motorcycle or riding in rain, to maintain the IP67 rating.
- **Cleaning:** Clean the display unit and sensors with a soft, damp cloth. Avoid using abrasive cleaners or solvents.
- **Sensor Battery:** The external sensors are designed for long battery life. If a sensor stops transmitting, check its battery. Replacement instructions for external sensor batteries are typically found in the detailed product manual or by contacting support.
- **Storage:** If storing the motorcycle for an extended period, ensure the display unit is fully charged and stored in a dry, cool place.

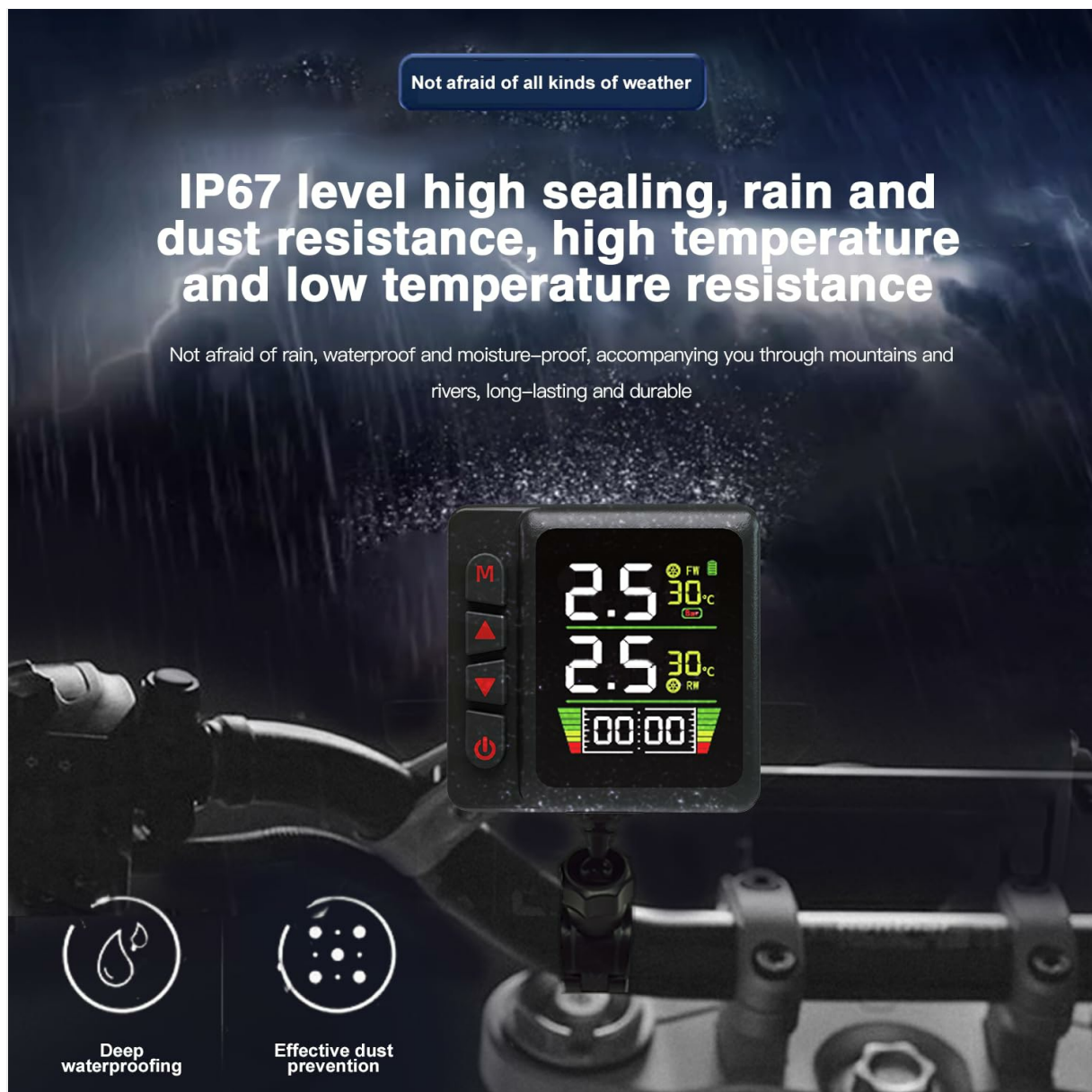


Figure 8: IP67 Waterproof Protection

7. TROUBLESHOOTING

| Problem | Possible Cause | Solution |
|--|---|---|
| No display/Unit won't power on | Low battery; Power cable disconnected; Unit faulty. | Charge the unit; Check power cable connection; Contact support if issue persists. |
| Sensors not displaying data | Sensors not installed correctly; Sensor battery low/dead; Interference; Sensors not paired. | Ensure sensors are tightly screwed on; Replace sensor battery (if applicable); Move away from strong electromagnetic fields; Refer to pairing instructions (if available in full manual). |
| Inaccurate pressure/temperature readings | Sensors not calibrated; External factors (extreme heat/cold); Sensor malfunction. | Verify tire pressure with a known accurate gauge before installing sensors; Allow sensors to equilibrate; Contact support if readings remain consistently inaccurate. |
| Unit does not shut off automatically | Specific design behavior; Power setting. | Manually power off the unit using the power button if automatic shutdown is not observed. |

| Problem | Possible Cause | Solution |
|------------------------------------|---|---|
| "Slope" reading unclear | This feature indicates the vehicle's inclination. | The slope display provides information on the motorcycle's lean angle or incline. No action is typically required unless it indicates an extreme or unexpected value. |
| Missing mounting hardware (screws) | Packaging error. | Contact OBEST customer support immediately for replacement parts. |

8. SPECIFICATIONS




- **Model Number:** MT001
- **Brand:** OBEST
- **Material:** Polypropylene
- **Mounting Type:** Tire Mount (for sensors)
- **Output Type:** Analog (referring to sensor signal)
- **Waterproof Rating:** IP67
- **Display:** LCD
- **Charging:** QC3.0 Fast Charging
- **Package Dimensions:** 7.17 x 5.59 x 2.17 inches
- **Item Weight:** 0.03 ounces (likely referring to a component, not entire package)

9. WARRANTY AND SUPPORT

This product comes with a one-year warranty from the date of purchase. In the unlikely event of an initial defect or any issues with the product, please contact the seller directly. OBEST values customer trust and aims to respond to inquiries within 24 hours.

For further assistance, please refer to the contact information provided with your purchase or visit the official OBEST support channels.

Related Documents - MT001

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