Flydew T154

Flydew RV Tire Pressure Monitoring System (TPMS) T154 User Manual

Model: T154 (4 Sensors)

Introduction

This manual provides essential information for the proper installation, operation, and maintenance of your Flydew RV Tire Pressure Monitoring System (TPMS) T154. This system is designed to monitor your vehicle's tire pressure and temperature in real-time, enhancing driving safety and tire longevity. Please read this manual thoroughly before using the product.
The Flydew TPMS T154 is suitable for RVs, trucks, SUVs, MPVs, and sedans, providing accurate data and timely alerts for various tire conditions.

Package Contents

Verify that all items listed below are included in your package:

- 1 x LCD Display Unit
- 4 x External Tire Pressure Sensors
- 4 x Hex Nuts
- 1 x Wrench
- 1 x USB Charging Cable
- 1 x Double-sided Adhesive Tape
- 1 x User Manual (this document)



Image: Package contents including the display unit, sensors, and accessories.

Product Overview and Specifications

The Flydew TPMS T154 features a high-resolution color LCD display and four external sensors. The display unit provides real-time tire pressure and temperature readings, while the sensors transmit data wirelessly.



Image: Detailed diagram of the TPMS display and sensor components.

Technical Specifications

Brand	Flydew
Model Number	T154
Sensor Type	External
Number of Sensors	4
Pressure Accuracy	±2 PSI
Temperature Accuracy	±3°F
Pressure Range	0-87 PSI / 0-6 BAR

Display Charging	Solar / USB-C
Sensor Battery Type	CR1632 (included)
Sensor Battery Life	Approx. 2 years (6+ months with smart sleep mode)
Operating Temperature	-4°F to 158°F (-20°C to 70°C)

Setup Instructions

1. Charging the Display Unit

The display unit can be charged via solar power or USB-C. For initial use, it is recommended to fully charge the unit using the USB-C cable.

- **Solar Charging:** Place the display unit on your dashboard where it can receive direct sunlight. The built-in solar panel will charge the internal battery.
- **USB-C Charging:** Connect the provided USB-C cable to the display unit and a 5V USB power source (e.g., car charger, computer USB port). The charging indicator will illuminate.



Image: Dual charging methods for the display unit: solar and USB.

2. Sensor Installation

Follow these steps to install the external tire pressure sensors. No tire removal is required.

1. **Power On Display:** Press and hold the power button on the display unit for 3 seconds to turn it on.
2. **Attach Hex Nuts:** Screw a hex nut onto each of the four valve stems. Do not tighten yet.
3. **Install Sensors:** Screw each sensor onto its corresponding valve stem in the correct position:

- **FL:** Front Left
- **RF:** Front Right
- **LR:** Left Rear
- **RR:** Right Rear

Ensure the sensors are screwed on firmly by hand.

4. **Lock Tight:** Use the provided wrench to tighten the hex nuts anticlockwise against the sensors. This secures the sensors and prevents loosening due to vibration.
5. **Soap Water Test:** Apply soapy water around the sensor and valve stem connection. Check for bubbles, which indicate an air leak. If bubbles appear, re-tighten the sensor and hex nut until no leaks are detected.

Important Note: The hex nuts are crucial for anti-vibration, providing a secondary seal, and protecting the valve stems.



Image: Step-by-step guide for sensor installation.

Operating Instructions

1. Power On/Off

- **Power On:** Press and hold the power button for 3 seconds.
- **Power Off:** Press and hold the power button for 3 seconds.

- **Smart Auto-Sleep/Wake:** The display unit will automatically enter sleep mode after 3 minutes of engine shutdown (no vibration detected) to conserve power. It will automatically wake up upon detecting vehicle vibration (engine start or movement).

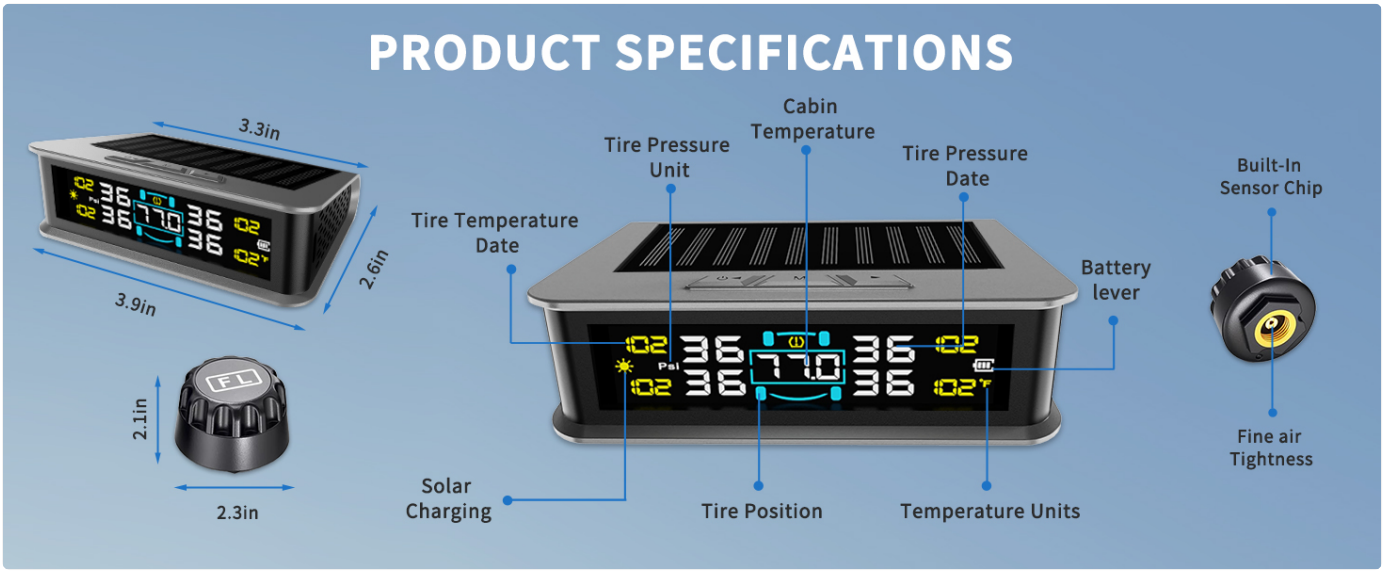


Image: Smart auto-sleep and wake functionality.

2. Display Functions and Unit Switching

The LCD display shows real-time pressure and temperature for all four tires. You can switch between measurement units:

- **Pressure Units:** Press the **SET** button briefly to cycle between PSI and BAR.
- **Temperature Units:** Press the **MODE** button briefly to cycle between °F (Fahrenheit) and °C (Celsius).

3. Alarm Modes and Thresholds

The system provides 6 smart alarm modes to alert you to potential tire issues:

- **High Pressure Alarm:** Alerts when tire pressure exceeds the set high limit.
- **Low Pressure Alarm:** Alerts when tire pressure falls below the set low limit.
- **Fast Air Loss Alarm:** Alerts for rapid pressure drops.
- **High Temperature Alarm:** Alerts when tire temperature exceeds the set high limit.
- **Sensor Disconnection Alarm:** Alerts if a sensor loses connection with the display unit.
- **Low Battery Alarm:** Alerts when a sensor's battery is low.



Image: Overview of the 6 smart alarm protections.

4. Customizing Alarm Thresholds

You can customize the high and low pressure and high temperature alarm thresholds to suit your vehicle and load requirements (0-87 PSI / 0-6 BAR).

1. While the display is on, press and hold the **SET** button for approximately 3 seconds to enter the setting mode. The high pressure icon will flash.
2. Use the **+** and **-** buttons (usually located on the display unit) to adjust the value.

3. Press the **SET** button again to confirm the setting and move to the next parameter (e.g., low pressure, high temperature).
4. Repeat step 2 and 3 for all parameters.
5. After setting all parameters, press and hold the **SET** button again to save and exit the setting mode.

Maintenance

1. Sensor Battery Replacement

The external sensors use CR1632 button cell batteries. When a low battery alarm is triggered, replace the sensor battery promptly.

1. Unscrew the sensor from the valve stem.
2. Carefully open the sensor casing (usually by twisting or prying gently with a small tool).
3. Remove the old CR1632 battery.
4. Insert a new CR1632 battery with the positive (+) side facing up.
5. Close the sensor casing securely.
6. Reinstall the sensor onto the valve stem following the installation steps in the "Setup Instructions" section.

Note: Dispose of old batteries responsibly.

2. Cleaning

- Wipe the display unit with a soft, dry cloth. Avoid using abrasive cleaners or solvents.
- The sensors are waterproof (IP67 rated), but it is recommended to clean them with a damp cloth and ensure they are dry before reinstallation.

Troubleshooting

If you encounter issues with your Flydew TPMS, refer to the table below for common problems and solutions.

Problem	Possible Cause	Solution
Display not turning on	Low battery; Unit is in sleep mode; Power button not pressed correctly.	Charge the display unit via USB or solar. Press and hold the power button for 3 seconds. Ensure vehicle is moving to wake from sleep.
No tire data displayed / Sensor disconnection alarm	Sensor not installed correctly; Sensor battery low/dead; Signal interference; Sensor too far from display.	Reinstall sensor firmly. Replace sensor battery. Move display unit closer to sensors if possible. Check for strong electromagnetic interference.
Inaccurate pressure/temperature readings	Sensor not calibrated; Sensor faulty; External factors (e.g., extreme heat).	Ensure tires are at correct pressure before installation. Re-check installation. If problem persists, contact customer support.
Display unit not charging via solar	Insufficient sunlight; Solar panel obstructed or dirty.	Relocate display to a position with direct sunlight. Clean the solar panel. Use USB charging as an alternative.
Alarm sounds frequently	Alarm thresholds set too sensitive; Actual tire condition (low pressure, high temp).	Adjust alarm thresholds in the settings menu. Check actual tire pressure and temperature with a reliable gauge.

If the issue persists after attempting these solutions, please contact Flydew customer support for further assistance.

Warranty and Support

Flydew products are designed for reliability and performance. For specific warranty details, please refer to the warranty card included with your product or visit the official Flydew website.

For technical support, troubleshooting assistance, or any questions regarding your Flydew TPMS T154, please contact our customer support team. Contact information can typically be found on the product packaging or our official website.

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