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Flydew T15-4

Flydew RV Tire Pressure Monitoring System (TPMS) - 4 Sensors User Manual

Model: T15-4

1. Introduction

This manual provides instructions for the installation, operation, and maintenance of your Flydew RV Tire Pressure Monitoring System (TPMS) with 4 sensors, model T15-4. This system is designed to monitor tire pressure and temperature in real-time, enhancing vehicle safety.
Key features include:

- **24/7 Real-Time Tracking:** Monitors pressure and temperature every 0.3 seconds with an LCD display refreshing every 6 seconds.
- **6 Smart Alarms:** Alerts for high/low pressure, high temperature, sensor disconnection, low battery, and sensor fault. Customizable thresholds.
- **Dual Charging:** Solar-powered for daytime and USB-C for low light conditions.
- **Smart Power Management:** Automatically powers off after 3 minutes of engine shutdown and reactivates on ignition.
- **Easy Installation:** External sensors allow for quick setup without tire removal.
- **Auto-Adjusting Color LCD:** High-resolution display with automatic brightness adjustment for clear visibility.

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Video 1.1: Overview of a Tire Pressure Monitoring System

This video provides a general overview of a tire pressure monitoring system. Please note that while the video may show a 6-sensor system, the principles of operation and features are similar to your 4-sensor Flydew TPMS.

2. Package Contents

Before installation, please verify that all components are present:

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



Figure 2.1: Package Contents

3. Setup and Installation

The Flydew TPMS is designed for quick and easy installation without requiring tire removal. Follow these steps:

1. **Power On Display:** Press and hold the power button on the LCD display unit for 3 seconds to turn it on.
2. **Attach Hex Nuts:** Screw one hex nut onto each of the 4 valve stems. Do not tighten yet.
3. **Install Sensors:** Install the sensors onto the valve stems in the correct positions: Left Front (LF) → Right Front (RF) → Left Rear (LR) → Right Rear (RR). Ensure each sensor is screwed on firmly.
4. **Lock Tight:** Use the provided wrench to firmly tighten the hex nuts (anticlockwise) against the sensors. This prevents vibration loosening and provides a secondary seal.
5. **Soak Water Test:** Apply soap water around the sensor and valve stem connection. Check for bubbles, which indicate a leak. If bubbles appear, re-tighten the sensor and hex nut.

Important Note: The hex nuts are crucial for anti-vibration, secondary sealing, and valve protection.



Figure 3.1: Sensor Installation Steps



Figure 3.2: Display Unit Placement on Dashboard

4. Operating Instructions

4.1 Display Overview

The LCD display provides real-time information on tire pressure and temperature for all four tires. It automatically adjusts brightness for optimal visibility day or night.



Figure 4.1: TPMS Display Interface

4.2 Power Management

- **Automatic On/Off:** The system intelligently powers off approximately 3 minutes after the engine is shut down. It automatically reactivates upon vehicle ignition or vibration.
- **Manual Power On:** Press and hold the power button for 3 seconds.

4.3 Alarm Modes and Thresholds

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

- High Pressure Alarm
- Low Pressure Alarm
- High Temperature Alarm
- Sensor Disconnection Alarm
- Low Battery Alarm
- Sensor Fault Alarm

You can customize alert thresholds (0-87 PSI / 0-6 BAR) via the LCD menu. Refer to the detailed instructions in the included quick start guide for specific menu navigation.
The system supports instant unit switching between PSI/BAR and °F/°C.



Figure 4.2: Six Alarm Modes

5. Maintenance

5.1 Charging the Display Unit

The display unit features dual charging capabilities:

- **Solar Charging:** The integrated solar panel charges the unit during daylight hours.
- **USB-C Charging:** For extended periods of low sunlight or rapid charging, connect the display unit via the provided USB-C cable to a power source.



Figure 5.1: Solar and USB Charging

5.2 Sensor Battery Replacement

The external sensors use long-lasting CR1632 batteries, which typically last for 1 year with smart sleep mode. To replace a sensor battery:

1. Unscrew the sensor from the valve stem.
2. Use the provided wrench to carefully open the sensor casing.
3. Remove the old CR1632 battery and insert a new one, ensuring correct polarity.
4. Close the sensor casing securely and re-install it on the valve stem, following the installation steps in Section 3.

Your browser does not support the video tag.

Video 5.2: How to Replace a Sensor Battery

This video demonstrates the process of replacing the battery in a TPMS sensor. It shows how to open the sensor, remove the old battery, insert a new one, and reassemble the sensor.

6. Troubleshooting

If you encounter issues with your Flydew TPMS, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Display not turning on	Low battery in display unit; unit in sleep mode.	Charge the display unit via USB. Press and hold the power button for 3 seconds. Ensure vehicle ignition is on for auto-activation.
Sensor not displaying data / Sensor Disconnection Alarm	Sensor not installed correctly; sensor battery low/dead; signal interference.	Re-install the sensor, ensuring it's tight. Check and replace the sensor battery (CR1632). Ensure no large metallic objects are blocking the signal.

Problem	Possible Cause	Solution
High/Low Pressure Alarm	Actual tire pressure outside set thresholds.	Check tire pressure with a reliable gauge and adjust to recommended levels. Verify alarm thresholds are set correctly in the display menu.
High Temperature Alarm	Actual tire temperature too high.	Pull over safely and inspect the tire for issues (e.g., under-inflation, brake drag). Allow tires to cool.
Inaccurate Readings	Sensors not properly calibrated or faulty.	Ensure sensors are correctly installed and tightened. Compare readings with a known accurate tire gauge. If discrepancies persist, contact customer support.

7. Specifications

- **Model:** T15-4
- **Brand:** Flydew
- **Pressure Accuracy:** ±2 PSI
- **Temperature Accuracy:** ±3°F
- **Display Refresh Rate:** Every 6 seconds
- **Sensor Update Rate:** Every 0.3 seconds
- **Pressure Units:** PSI / BAR (switchable)
- **Temperature Units:** °F / °C (switchable)
- **Sensor Battery Type:** CR1632 (included)
- **Sensor Battery Lifespan:** Approximately 1 year (with smart sleep mode)
- **Display Charging:** Solar / USB-C
- **Parcel Dimensions:** 15.4 x 13.2 x 4.4 cm
- **Item Weight:** 190 g



Figure 7.1: Product Specifications Diagram

8. Warranty and Support

For warranty information, please refer to the product packaging or contact your retailer. Flydew provides professional customer support for any questions or assistance you may need regarding your TPMS.
Please retain your proof of purchase for warranty claims.

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