GRUNDIG RV01 (4-8 Wheel) RV TPMS

Tire Pressure Monitoring System | User Instruction Manual

IMPORTANT NOTICES & SAFETY PRECAUTIONS

- **Read Before Use:** Please read this instruction manual thoroughly before operation to ensure correct setup and optimal driving performance.
- **Parameter Integrity:** To maintain system accuracy, it is highly discouraged to alter core system parameters unless specific professional adjustments are strictly required for your unique vehicle setup.
- **Power-On Sequence:** CRITICAL: Always power on the monitor display main unit BEFORE installing the sensors to ensure instant wireless signal initialization.
- **Visual Disclaimer:** All schematic diagrams in this manual are for visual reference only. The final design and specifications of the actual physical product shall prevail.

Ⅰ. Product Overview

Thank you for choosing the GRUNDIG RV01 Tire Pressure Monitoring System (TPMS). This system is engineered specifically to deliver dependable, real-time tracking of tire inflation pressure and temperature metrics for recreational vehicles, including towable trailers, campers, 5th wheels, and 4-to-8 wheel motorhomes.

Once active, the RV01 continuously watches over tire health. It will instantly alert the driver with a loud audible chime and blinking diagnostic icons upon detecting rapid pressure drops, slow leaks, over-inflation, or critical high-temperature conditions. This early detection mitigates blowout risks, prevents premature tire wear, and ensures full driving security.

Ⅱ. Reception Host & Interface Introduction

2.1 Interface & Hardware Overview

Figure 1: RV01 Monitor Main Interface and Button Layout Diagram

No.	Component / Icon Name	Functional Description
①	Battery Level Indicator	Displays the real-time battery and charging status of the monitor.
②	Tire Pressure Unit	Indicates the active operational unit (BAR or PSI).
③	Tire Temperature Reading	Displays the real-time thermal core temperature of each selected tire position.
④	Tire Pressure Reading	Displays the real-time pneumatic pressure of synchronized tires.
⑤	Up Button	Press to navigate menus upward or incrementally increase a targeted parameter threshold.

⑥	Settings Button (Center)	Long press (3s) to enter/exit setup menu mode; short press to cycle through fields or confirm parameters.
⑦	Down / Power Button	Dual Functionality: Acts as both menu navigation and power control. • Power Control: Press and hold for 3 seconds to turn the unit ON or OFF. • Navigation: Short press to navigate menus downward or decrease values.
⑧	Type-C Charging Interface	DC 5V external power input for high-speed charging of the internal battery.

2.2 Factory Default Settings

- **Pressure Unit:** BAR (Default)
- **Temperature Unit:** °C (Default)
- **Default Upper Pressure Limit:** 3.2 BAR (46 PSI) [Fully adjustable up to 8.0 BAR / 116 PSI]
- **Default Lower Pressure Limit:** 1.8 BAR (26 PSI)
- **High-Temperature Warning Threshold:** 68°C (154°F)

Ⅲ. System Configuration & Setup Instructions

To initialize any custom adjustment below, long press the center Settings Button for 3 seconds to launch the main settings menu.

3.1 Pressure Unit Configuration (BAR / PSI)

- Enter the setup menu. Short press the center Settings Button until the BAR text flashes.
- Press the Up or Down button to select PSI.
- Short press the center Settings Button to confirm and save your setting.

3.2 Temperature Unit Configuration (°C / °F)

- Enter the setup menu. Press the Up Button once to toggle to temperature fields, then press the center Settings Button until °C flashes.

- Press Up or Down to switch to °F.
- Press the center Settings Button once to confirm.

3.3 Digital Clock / System Time Calibration

- Enter the setup menu. Press the Up Button twice, then press the center Settings Button twice until the hour numbers flash.
- Use Up / Down to set the correct hour value.
- Short press the center Settings Button to jump to minutes (minute digits will flash).
- Use Up / Down to adjust the minutes, then press the center Settings Button to lock in the time.

3.4 Upper Tire Pressure Alarm Threshold (PH)

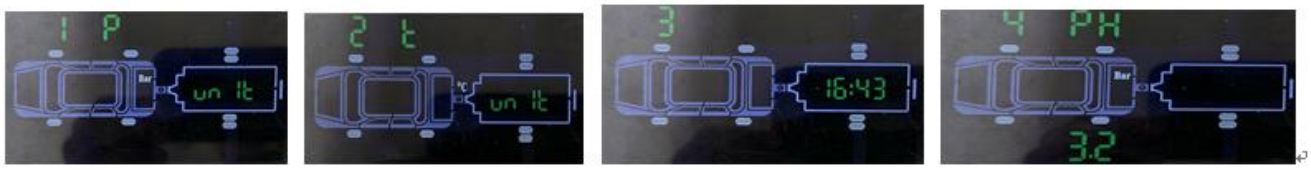

Figure 2: Custom Parameter Setting Interface Layout

- Enter the setup menu. Press the Up Button three times, then short press the center Settings Button once. The upper safety limit digits will flash.
- Use Up / Down to adjust to your ideal high-pressure warning threshold (Supporting heavy-duty range adjustments up to 8.0 BAR / 116 PSI).
- Press the center Settings Button once to save.

3.5 Lower Tire Pressure Alarm Threshold (PL)

- Enter the setup menu. Press the Up Button four times, then press the center Settings Button once until the lower safety threshold digits flash.
- Use Up / Down to adjust according to your tire manufacturer's optimal cold inflation pressure.
- Press the center Settings Button once to confirm and save.

3.6 Tire Quantity Mode Layout Switching (4, 6, or 8 Wheels)

- Enter the setup menu. Press the Up Button five times, then press the center Settings Button once.
- Use the Up / Down buttons to cycle through and select your exact wheel quantity layout (Supports seamless switching between 4, 6, and 8-wheel modes).
- Press the center Settings Button once to confirm and apply the layout.

3.7 Individual Sensor Re-Pairing & Replacement

- Enter the setup menu. Press the Up Button six times, then short press the center Settings Button once until the tire index ID code flashes.
- Use Up / Down to choose your targeted tire location (e.g., Index 0 maps to Sensor 1, Index 1 maps to Sensor 2, etc.).
- Press the center Settings Button once to make the ID flash, then immediately mount your new sensor firmly onto the target tire valve stem.
- The system will automatically recognize the wireless signal transmission, link the new ID, and update the display.

3.8 System Hardware Factory Reset

- With the monitor powered on, long press the center Settings Button for 3 seconds to access the configurations menu. Press the Up Button seven times, then short press the center Settings Button twice.
- The system will execute a comprehensive internal factory reset, reboot itself, and automatically begin searching for sensors from scratch.
- Ensure all custom sensor configurations are remounted to the valve stems sequentially within 30 minutes to complete synchronization.

Ⅳ. Sensor Battery Replacement (CR1632)

When executing battery maintenance, always perform the steps for each sensor one by one. Never disassemble multiple sensor shells at the same time to avoid mixing up internal components or accidentally mounting a casing onto the incorrect tire position index.

- Take the specialized hex nut wrench included in the packaging. Rotate the anti-theft nut clockwise until it disengages completely from the sensor body base, then unscrew the sensor body counterclockwise to remove it from the tire valve.
- Use the wrench tool to unscrew the outer protective dome sensor cover counterclockwise.
- Gently slide out the depleted battery cell from the integrated metal holding clip. Safely dispose of it in accordance with local environmental rules.
- Verify terminal polarity (the positive "+" side must be facing flat upwards). Slide in a fresh, premium CR1632 lithium button cell battery.
- Securely screw the protective dome casing back on clockwise, then tighten it using the wrench to fully restore structural IP67 dustproof and waterproof seal integrity.