Geloo T12-4

Geloo T12-4 Tire Pressure Monitoring System User Manual

Model: T12-4 | Brand: Geloo

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your Geloo T12-4 Tire Pressure Monitoring System (TPMS). This system is designed to enhance driving safety by continuously monitoring your vehicle's tire pressure and temperature, alerting you to potential issues in real-time. Please read this manual thoroughly before using the product.

2. Package Contents

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

- 1 x Tire Pressure Monitoring System Display Unit
- 4 x External Sensors
- 1 x Installation Clamp
- 1 x USB Charging Cable
- 1 x User Manual
- 1 x Double-sided Tape
- 4 x Anti-theft Nuts
- 1 x Wrench for Sensor Installation

3. Product Overview

The Geloo T12-4 TPMS consists of a main display unit and four external sensors. The display unit features an LCD screen for real-time data, solar charging capabilities, and control buttons. The external sensors are designed for easy installation on tire valves and are IPX67 waterproof.

Image 3.1: The Geloo T12-4 TPMS display unit with a solar panel on top and four external tire pressure sensors labeled RR, FR, RL, FL.

Key Features:

- **LCD Color Screen:** Automatically adjusts brightness for clear visibility in various light conditions.
- **Dual Charging:** Supports both solar and USB charging for continuous power.
- **6 Alarm Modes:** Alerts for high/low pressure, high temperature, fast/slow leaks, low sensor battery, and sensor faults.
- **Automatic Sleep/Wake Mode:** Enters power-saving mode when stationary and wakes upon vehicle movement.
- **High Accuracy Sensors:** Provides precise real-time pressure and temperature readings.
- **IPX67 Waterproof Sensors:** Designed to withstand harsh weather conditions.

Image 3.2: The Geloo T12-4 TPMS display unit mounted on a car dashboard, showing a clear LCD screen with tire pressure and temperature readings.

Image 3.3: Illustration of the Geloo T12-4 TPMS being charged via solar power on a sunny road and via USB cable inside a car.

Image 3.4: Diagram illustrating the six alarm modes of the Geloo T12-4 TPMS: fast tire leak, high pressure, low pressure, high temperature, sensor low battery, and sensor disconnected.

Image 3.5: Visual representation of the automatic sleep mode (display off when car is stopped) and vibration detection function (display wakes up when car starts).

4. Installation Guide

4.1 Display Unit Installation

Place the display unit on your vehicle's dashboard in a location where it receives sufficient sunlight for solar charging and does not obstruct your view. Use the provided double-sided tape to secure it.

4.2 Sensor Installation (Four-Step Process)

The external sensors are designed for quick and easy installation without disassembling the tire.

Image 4.1: A visual guide showing the four steps for installing the external tire pressure sensors.

1. **Step 1: Screw the screw into the valve.** Remove the original valve cap. Screw the anti-theft nut onto the tire valve stem.
2. **Step 2: Tighten the sensor.** Screw the corresponding sensor (FL, FR, RL, RR) onto the valve stem until it is hand-tight. Ensure the sensor is securely attached.
3. **Step 3: Tighten the nut counter-clockwise to fix the sensor.** Push the anti-theft nut towards the sensor and tighten it counter-clockwise using the provided wrench.
4. **Step 4: Fix the nut with a wrench.** Use the wrench to fully tighten the anti-theft nut, securing the sensor in place and preventing theft.

Note: Ensure each sensor is installed on its corresponding tire position (Front Left, Front Right, Rear Left, Rear Right) for accurate display readings.

4.3 Vehicle Compatibility

This TPMS is suitable for most four-wheeled vehicles, including cars, SUVs, RVs/Campers, pickup trucks, trailers, and MPVs.

Image 4.2: Examples of vehicle types compatible with the Geloo T12-4 TPMS, including cars, SUVs, RVs/Campers, pickup trucks, trailers, and MPVs.

5. Operating Instructions

5.1 Power On/Off

- **Automatic:** The display unit will automatically turn on when it detects vehicle vibration (e.g., when you open the car door or start driving). It will enter sleep mode after 10 minutes of no vibration.
- **Manual:** Press any button on the display unit to manually turn it on or off.

5.2 Display and Unit Switching

The LCD screen displays real-time tire pressure and temperature for all four tires. The display refreshes every 6 seconds.

- **Switching Units:** Long press the right button for 6 seconds to cycle through pressure units (PSI/Bar) and temperature units (°C/°F).
- **Setting Alarm Values:** Long press the 'M' key to enter the setting mode for default alarm values. Follow the on-screen prompts to adjust high/low pressure and high temperature thresholds.

5.3 Charging the Display Unit

The display unit supports two charging methods:

- **Solar Charging:** The built-in solar panel charges the unit when exposed to sunlight. This is the primary charging method during normal driving.
- **USB Charging:** For initial use or in conditions with insufficient sunlight, connect the provided USB cable to the unit's USB port and a 5V USB power source (e.g., car charger, computer USB port). Ensure the unit is fully charged before first use.

6. Alarm Modes

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

- **High Pressure Alarm:** Activates when tire pressure exceeds the preset high pressure threshold.
- **Low Pressure Alarm:** Activates when tire pressure falls below the preset low pressure threshold.
- **High Temperature Alarm:** Activates when tire temperature exceeds the preset high temperature threshold.
- **Fast Leak Alarm:** Alerts rapidly if a sudden and significant drop in tire pressure is detected.
- **Slow Leak Alarm:** Alerts for a gradual but continuous loss of tire pressure.
- **Sensor Battery Low Power Alarm:** Indicates that a sensor's battery is running low and needs replacement.
- **Sensor Fault Alarm:** Indicates a malfunction or disconnection of a sensor.

When an alarm is triggered, the display will show the corresponding icon and value flashing, and the unit will emit an audible 'bi.bi.bi' sound. Press any key to silence the alarm sound; the fault icon will remain visible until the issue is resolved.

7. Maintenance

7.1 Sensor Battery Replacement

The external sensors use CR1632 coin cell batteries. When a 'Sensor Battery Low Power' alarm occurs, replace the battery following these steps:

Image 7.1: A step-by-step visual guide for replacing the battery in an external TPMS sensor.

1. **Unscrew the valve cap:** Use the provided wrench to loosen the anti-theft nut and remove the sensor from the tire valve.
2. **Spin out sensor:** Carefully unscrew the sensor casing.
3. **Remove the dismantling gasket:** Gently remove the rubber gasket.
4. **Wrench the shell with a wrench:** Use the wrench to pry open the sensor shell.
5. **Replace a new battery:** Remove the old CR1632 battery and insert a new one, ensuring correct polarity (+ side up).
6. **Back sensor:** Reassemble the sensor by screwing the casing back on and re-installing it on the tire valve following the installation steps (Section 4.2).

7.2 Cleaning

Wipe the display unit and sensors with a soft, dry cloth. Avoid using abrasive cleaners or solvents that could damage the components.

8. Troubleshooting

If you encounter issues with your Geloo T12-4 TPMS, refer to the following common problems and solutions:

- **Issue: Inaccurate Tire Pressure Readings.**
  Solution: Ensure sensors are correctly installed and tightened. Verify tire pressure with a known accurate gauge. If discrepancies persist, reset the TPMS and re-pair the sensors.
- **Issue: Sensors Not Updating or Connecting.**
  Solution: Check sensor batteries and replace if low. Ensure the display unit is powered on and within range. If the issue persists, try resetting the TPMS and re-pairing the sensors. It may take several minutes for all sensors to transmit data upon starting the vehicle.
- **Issue: Reprogramming After Tire Rotation.**
  Solution: The sensors and receiver are pre-programmed at the factory. Reprogramming is generally not required when rotating tires. Only if sensors are replaced or the receiver is changed, reprogramming might be necessary. Refer to the specific pairing instructions in the full user manual if available.
- **Issue: Display Not Turning On Automatically.**
  Solution: Ensure the display unit is charged (via solar or USB). Check if the unit is placed in a location where it can detect vibrations.

9. Specifications

Specification	Detail
Manufacturer	Geloo
Model	T12-4 Tire Pressure Monitoring System
Item Weight	6.4 ounces
Package Dimensions	4.49 x 3.78 x 2.48 inches
Item Model Number	T12-4

Sensor Type	External
Waterproof Rating (Sensors)	IPX67
Charging Methods	Solar, USB
Pressure Units	PSI, Bar
Temperature Units	°C, °F

10. Warranty and Support

Geloo is committed to providing quality products and customer satisfaction. For support, please refer to the following:

- **Returns:** 90-day no-worry return policy.
- **Replacement:** 12-month replacement available.
- **Support:** Lifetime consult and support.
- **Contact:** For any inquiries or assistance, please contact Geloo customer service.

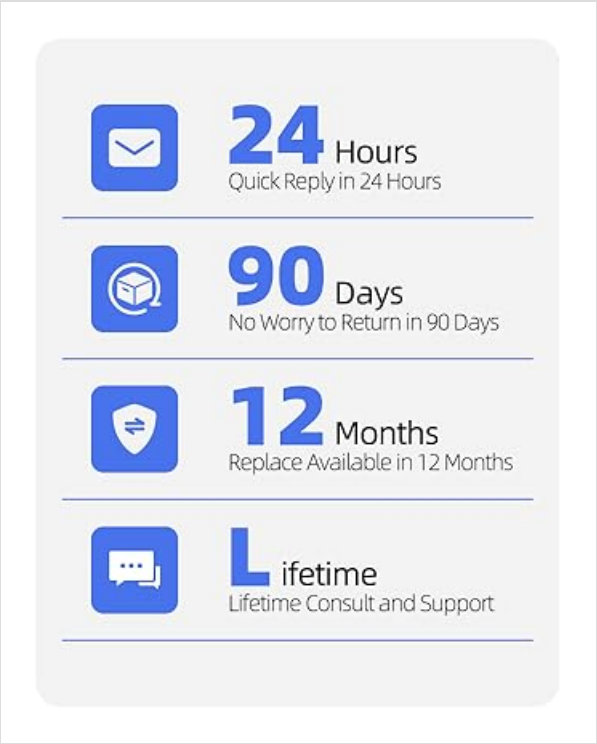
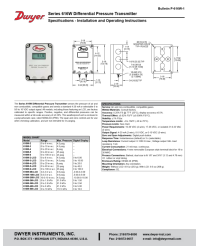
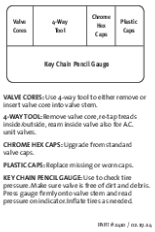


Image 10.1: Overview of Geloo's customer support offerings, including 24-hour reply, 90-day return, 12-month replacement, and lifetime consult and support.

11. Safety Information

- Do not attempt to disassemble or modify the product.
- Keep the product away from extreme temperatures and direct flame.
- Ensure sensors are securely tightened to prevent air leakage and loss during driving.
- Always check tire pressure manually with a reliable gauge periodically, as electronic systems can have limitations.
- Do not rely solely on the TPMS for critical safety decisions; always perform visual checks of your tires.

Related Documents - T12-4

	FOBO Bike User Manual - Your Guide to Tire Pressure Monitoring Comprehensive user manual for FOBO Bike, detailing installation, usage, troubleshooting, and specifications for the advanced Tire Pressure Monitoring System (TPMS) for bicycles.
	Vehicle Relearn Instructions for VR19NISINF TPMS Sensor Step-by-step guide for relearning new TPMS sensors for vehicles, including tire pressure adjustment, sensor triggering, and driving requirements. Features instructions for VR19NISINF, compatible with BMW 4-Series models.
	SIMING TPMS Sensor Installation Guide for Clamp-in Valves Comprehensive installation instructions for SIMING TPMS sensors with clamp-in valves, covering component identification, safety precautions, FCC compliance, and step-by-step assembly with torque specifications.
	Turck IO-Link All-in-One Solutions for Industry 4.0 This document details Turck's comprehensive IO-Link solutions designed to enable Industry 4.0 communication. It covers the benefits of IO-Link, Turck's product portfolio including sensors, connectivity, and masters, along with application examples and detailed product specifications for various industrial automation components.
	Dwyer Series 616W Differential Pressure Transmitter: Specifications, Installation, and Operation Comprehensive guide to the Dwyer Series 616W Differential Pressure Transmitter, covering specifications, installation procedures, electrical connections (4-20mA and 0-5/0-10V outputs), calibration, and troubleshooting.
	Slime Key Chain Pencil Gauge and Tire Accessories User Guide Comprehensive guide to using the Slime Key Chain Pencil Gauge and its associated tire accessories, including valve cores, a 4-way tool, and protective valve caps. Learn how to check tire pressure and perform basic tire valve maintenance.