

MOBILETRON KX-S161-4

MOBILETRON MORESENSOR Compact PRO Series TPMS Tire Pressure Sensor User Manual

Model: KX-S161-4

1. PRODUCT OVERVIEW

The MOBILETRON MORESENSOR Compact PRO Series TPMS Tire Pressure Sensor (Model KX-S161-4) is a pre-programmed and reprogrammable tire pressure monitoring system sensor designed for a wide range of vehicles. It combines 315MHz and 433MHz dual frequencies into a single universal sensor, offering broad vehicle coverage and reliable performance.



Image 1.1: The MORESENSOR Compact PRO Series TPMS Sensor, showcasing its design and integrated valve stem.


Key Features:

- **Dual Frequency:** Combines 315MHz and 433MHz radio frequencies for wide compatibility.

- **Extensive Vehicle Coverage:** Compatible with over 98% of vehicles on the road.
- **Long Battery Life:** Features a premium lithium battery, made in Japan, designed to last 8-10 years under normal usage.
- **Reprogrammable:** Can be programmed, reprogrammed, or modified using MOBILETRON & ATEQ branded TPMS programmers (e.g., PT46/PT47/VT56).
- **Durable Design:** IP67 waterproof rating and robust construction with reinforced plastic and aluminum valve stem.
- **High Pressure Tolerance:** Handles a maximum PSI of 116.
- **Temperature Rated:** Designed to withstand both high and low temperatures.

2. IMPORTANT INFORMATION BEFORE INSTALLATION

Before proceeding with installation, it is crucial to review the following guidelines to ensure proper function and compatibility.



Important | Must Read

Pre-programmed TPMS Sensor Shopping Guide

Please make sure to read through given information below before placing your order

Self-Checking List

1. Do you know what frequency your vehicle uses?
Use a TPMS scanner to verify the frequency or find a local tire shop check it for you
2. Have you doublechecked the vehicle make, model and year?
Use VIN number to look up vehicle information
3. Do you have a TPMS servicing tool to perform sensor relearn?
Vehicles that comply to Manual Relearn require a properly formatted and updated TPMS servicing tool to register and pair new sensors to vehicle

Please be advised that

- ★ **Pre-programmed ≠ Auto Relearn**
- ★ TPMS sensor is not D-I-Y product
TPMS sensor's installation and pairing require certain level of knowledge, skill and special equipment
- ★ DO NOT attempt to install sensors if your tool fails to read them




Image 2.1: Pre-programmed TPMS Sensor Shopping Guide.

Self-Checking List:

1. **Vehicle Frequency:** Verify the frequency your vehicle uses. Use a TPMS scanner or consult a local tire shop.

2. **Vehicle Compatibility:** Double-check the vehicle make, model, and year. Use the VIN number to look up vehicle information.
3. **TPMS Servicing Tool:** Confirm you have a TPMS servicing tool to perform sensor relearn procedures. Vehicles require a properly formatted and updated TPMS servicing tool to register and pair new sensors.

Please be advised:

- Pre-programmed does **not** equate to Auto Relearn.
- TPMS sensor installation is **not** a Do-It-Yourself (DIY) product. It requires specific knowledge, skills, and specialized equipment.
- **DO NOT** attempt to install sensors if your diagnostic tool fails to read them.

BEFORE YOU BUY



MUST READ THIS

Please make sure to read through given information below before placing your order

TPMS Sensor is not D-I-Y product

TPMS Sensors installation requires certain level of knowledge, skill and special equipment. Only Qualified/Certified mechanics with adequate tools should perform the task.

Pre-programmed = Direct-Fit ≠ Auto-Relearn

Pre-programmed TPMS sensors require pairing / re-learning procedure to communicate with car's ECU system to send information such as tire pressure, tire location and etc.

DO NOT install sensor if your tools can't read our sensors

Please do not attempt to start a sensor replacement job if your scan tool or OBD diagnostic tool cannot detect our sensor to display information such as sensor ID, frequency, battery status and PSI.

DISCLAIMER

Mobiletron and their distributors should not be held responsible for labor/service cost incurred from installation when TPMS failed to function due to improper handling, incompatible scan tool or lacking relearn information and experience. No reimbursement will be applicable if sensor replacement task is done by DIYer or uncertified mechanic/technician.

Mobiletron provides warranty for product only and shall not be liable for any cost incurred from product installation service, equipment, alignment and other inspection.

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Image 2.2: Additional important information and disclaimer.

3. SETUP AND INSTALLATION

Installation of TPMS sensors should only be performed by qualified and certified mechanics with adequate tools and experience. Incorrect installation can lead to sensor malfunction and potential safety hazards.

Installation Steps (Professional Installation Recommended):

1. **Pre-Installation Check:** Before mounting, use a service scanner to test and read the sensors to confirm they are responding. Do not install if sensors are not detected by the scanner.
2. **Mounting:** Install the sensor onto the wheel rim according to standard TPMS installation procedures. The sensor is pre-assembled for ease of installation.
3. **Programming/Relearn:** After physical installation, the sensor requires pairing or a relearn procedure to communicate with the vehicle's ECU system. This process transmits tire pressure, tire location, and other relevant data.



Image 3.1: The sensor is pre-assembled for straightforward installation.

Programming and Compatibility:

The MORESENSOR Compact PRO Series sensors are designed for easy programming and broad compatibility.

- **Universal Compatibility:** These sensors are compatible with 98%+ of vehicles on the road, reducing the need for multiple sensor types.
- **Programming Tools:** Sensors can be programmed or modified using MOBILETRON & ATEQ branded TPMS programmers (e.g., PT46, PT47, VT56).
- **Scanner Readability:** They can be read by any standard TPMS scanner or diagnostic tool.



Image 3.2: Mobiletron PT47 and other compatible programmers for sensor configuration.

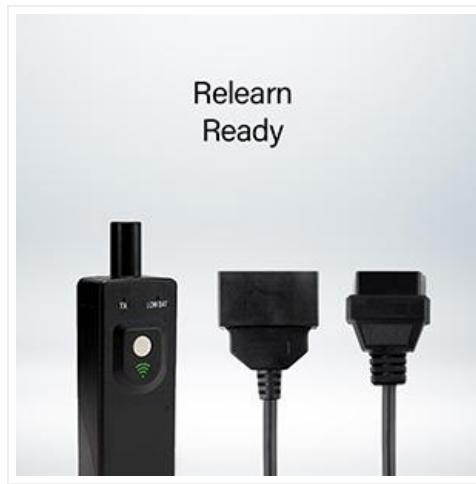


Image 3.3: An OBD2 module, indicating relearn readiness for the sensors.



Video 3.1: An official product video demonstrating the features and compatibility of MORESENSOR TPMS sensors, including programming and installation aspects.

4. OPERATING INSTRUCTIONS

Once properly installed and programmed, the MORESENSOR Compact PRO Series TPMS sensors automatically monitor your tire pressure and transmit data to your vehicle's TPMS receiver.

Sensor Functionality:

- **Automatic Monitoring:** Sensors continuously monitor tire pressure and temperature.
- **Signal Strength:** Engineered for excellent signal strength, ensuring reliable communication with the vehicle's system.
- **Environmental Resilience:** Designed for use in various conditions, including off-road and winter tires, and rated for high and low temperatures.



Image 4.1: Illustration of maximum connectivity and signal strength from the sensor to the vehicle's system.



Compatible with OFF ROAD & WINTER Tires and Wheels

Image 4.2: The sensor's compatibility with various tire types, including off-road and winter tires.

5. MAINTENANCE

The MORESENSOR Compact PRO Series TPMS sensors are designed for durability and minimal maintenance. Regular tire maintenance, including proper inflation and rotation, will help prolong the life of your sensors.

Battery Life:

The sensors are equipped with a premium lithium battery, manufactured in Japan, which provides an expected lifespan of 8-10 years under normal operating conditions. Battery replacement is not typically performed separately from sensor replacement due to the sealed unit design.



Image 5.1: The sensor's internal battery, highlighting its 8-10 year lifespan.

6. TROUBLESHOOTING

If you encounter issues with your TPMS sensors, consider the following troubleshooting steps. Professional assistance is recommended for diagnosis and repair.

Common Issues and Solutions:

- **Sensor Not Responding to Scanner:** If a service scanner cannot detect or read the sensors (e.g., display sensor ID, frequency, battery status, PSI) prior to or after installation, do not proceed with installation or seek professional diagnosis. This may indicate an incompatible tool or a faulty sensor.
- **TPMS Warning Light On:** After installation, if the TPMS warning light remains on, a relearn procedure may be required. Ensure the correct TPMS servicing tool is used and updated. Drive the vehicle for a short period (e.g., 5-10 minutes) at a consistent speed to allow sensors to register.
- **Incorrect Readings:** Verify tire pressure with a reliable manual gauge. If readings are consistently inaccurate, the sensor may require reprogramming or replacement.



Image 6.1: A technician using a TPMS scanner to check sensor functionality.

7. SPECIFICATIONS

Detailed technical specifications for the MORESENSOR Compact PRO Series TPMS Sensor (Model KX-S161-4).

| Feature | Specification |
|-----------------------------|---------------------------------------------|
| Model Number | KX-S161-4 |
| OEM Part Number Replacement | 1034602 |
| Frequency | 315MHz / 433MHz (Dual Frequency) |
| Battery Life | 8-10 years (Premium Lithium, Made in Japan) |
| Waterproof Rating | IP67 |
| Maximum PSI | 116 PSI |

| | |
|------------------------|--------------------------------------------|
| Material | Reinforced Plastic and Aluminum Valve Stem |
| Dimensions (L x W x H) | 3 x 2 x 1 inches |
| Item Weight | 8 ounces |
| Measurement Accuracy | ±2% |
| Mounting Type | Flange Mount |
| Special Features | Fixed Angle Valve Stem, Reprogrammable |



Image 7.1: Detailed dimensions of the Compact PRO Series sensor.

8. WARRANTY AND SUPPORT

Warranty Information:

- The MORESENSOR Compact Series comes with a **5-Year Limited Warranty**.

- The sensor battery is covered by a **3-Year Limited Warranty**.

For specific warranty details or to make a claim, please consult the manufacturer directly or refer to the product packaging.

Customer Support:

For further assistance, technical support, or additional information regarding your MORESENSOR TPMS sensors, please contact MOBILETRON customer service. Contact details can typically be found on the product packaging or the official MOBILETRON website.

Disclaimer:

Mobiletron and its distributors shall not be held responsible for labor/service costs incurred from installation when TPMS failed to function due to improper handling, incompatible scan tool, or lack of relearn information and experience. No reimbursement will be applicable if sensor replacement is performed by a DIYer or an uncertified mechanic/technician. Mobiletron provides warranty for the product only and is not liable for any costs incurred from product installation service, equipment, alignment, and other inspection fees.