

Autel MX-Sensor 2-in-1

Autel MX-Sensor 2-in-1 TPMS Sensor Instruction Manual

Models: 315MHz + 433MHz

1. INTRODUCTION

The Autel MX-Sensor is a programmable universal Tire Pressure Monitoring System (TPMS) sensor designed to replace original equipment (OE) sensors. It features a 2-in-1 dual frequency design (315MHz and 433MHz) and offers broad vehicle coverage. This manual provides essential information for the proper installation, programming, and maintenance of your MX-Sensors.



Image: Autel MX-Sensor 2-in-1 TPMS Sensor packaging and components, highlighting the dual frequency and interchangeable valve stems.

2. KEY FEATURES

- **Dual Frequency (2-in-1):** Combines 315MHz and 433MHz frequencies into a single sensor, reducing inventory requirements.
- **Broad Vehicle Coverage:** Compatible with approximately 99% of global vehicle models (over 75 makes and 1400 models).
- **Programmable:** Can be activated, programmed, and relearned using compatible Autel TPMS tools.
- **Wireless Programming:** Supports programming of up to 20 MX-Sensors simultaneously within seconds.
- **100% ID Copying:** Capable of cloning existing sensor IDs for seamless replacement.
- **Press-in Valve Design:** Facilitates easy installation and removal from vehicle tires.
- **Interchangeable Valve:** Designed for use with both metal and rubber valve stems.
- **Adjustable Valve Stem:** Features a 15-30° adjustable angle for optimal fit with various tire rims.
- **Extended Battery Life:** Equipped with an automotive-grade battery providing over 6 years of service life.



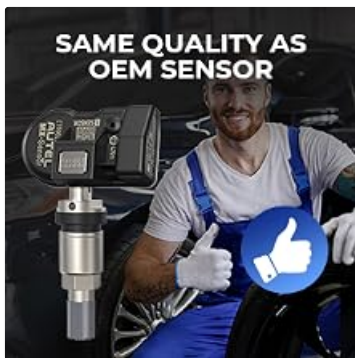
Dual Frequency Support



Press-in Valve Design



Interchangeable Valve



OE-Level Quality

3. COMPATIBILITY

Autel MX-Sensors are engineered to cover approximately 99% of passenger vehicle makes and models globally, manufactured from 1996 to 2023. This includes a wide range of American, Asian, and European vehicles.

- **America:** Ford, Lincoln, Chrysler, Dodge, Jeep, GM, Cadillac, Chevrolet, Buick, GMC, etc.
- **Asia:** Acura, Lexus, Suzuki, Subaru, Mitsubishi, Mazda, Kia, Isuzu, Infiniti, Hyundai, Honda, Daihatsu, Daewoo, etc.
- **Europe:** VW, Seat, Skoda, Peugeot, Citroen, Renault, Volvo, Vauxhall, Smart, Saab, Rolls-Royce, Porsche, Mini, Maybach, Lancia, BMW, Jaguar, Fiat, Ferrari, Dacia, Bugatti, Benz, Bentley, Audi, etc.

For specific compatibility details for your vehicle, please refer to the Autel website or contact Autel support.



99% OF VEHICLES COVERAGE

2-in-1 315&433 MHz Frequency

America:
Ford, Lincoln, Chrysler, Dodge, Jeep, GM, Cadillac, Chevrolet, Buick, GMC, etc,

Asia:
Acura, Lexus, Suzuki, Subaru, Mitsubishi, Mazda, Kia, Isuzu, Infiniti, Hyundai, Honda, Daihatsu, Daewoo, etc.

Europe:
VW, Seat, Skoda, Peugeot, Citroen, Renault, Volvo, Vauxhall, Smart, Saab, Rolls-Royce, Porsche, Mini, Maybach, Lancia, BMW, Jaguar, Fiat, Ferrari, Dacia, Citroen, Bugatti, Benz, Bentley, Audi, etc.

Image: Global vehicle coverage map illustrating the extensive compatibility of Autel MX-Sensors.

4. SETUP AND INSTALLATION

The MX-Sensor features a press-in valve design for straightforward installation. The following steps outline the general procedure for replacing a TPMS sensor. Professional installation is recommended.

Installation Steps:

1. **Loosen the Tire:** Safely lift the vehicle and loosen the tire from the wheel assembly.
2. **Demount the Tire:** Use appropriate tire changing equipment to demount the tire from the wheel rim.
3. **Dismount the Original Sensor:** Carefully remove the existing TPMS sensor from the wheel.
4. **Assemble the New Autel MX-Sensor:** Insert the new Autel MX-Sensor into the valve stem hole on the wheel. Ensure it is securely seated. The valve stem is adjustable from 15-30° to fit various rim designs.
5. **Mount the Tire:** Mount the tire bead back onto the wheel, taking care not to damage the new sensor.
6. **Inflate and Balance:** Inflate the tire to the manufacturer's recommended pressure and balance the wheel assembly.

PRESS-IN VALVE, EASY TO INSTALL



← PRESS OUT
→ PRESS IN



● 15-30° Adjustable Valve Stem

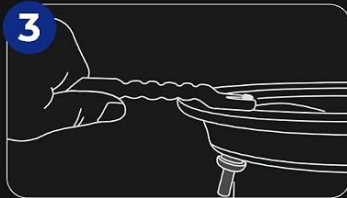
- Interchangeable Valve
- 12g Lighter Weight



Loosening The Tire



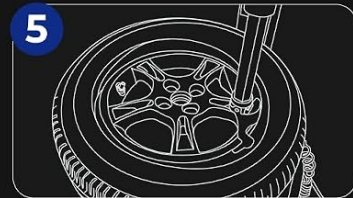
Dismounting The Tire



Dismounting The Sensor



Mounting Sensor & Valve



Mounting The Tire

Image: Visual guide for the press-in valve installation process, including steps for loosening, demounting, dismounting, assembling, and mounting.

5. OPERATING INSTRUCTIONS (PROGRAMMING)

Autel MX-Sensors require programming with a compatible Autel TPMS programming tool before they can function correctly with your vehicle's TPMS system. These sensors are 100% clone-able, allowing you to copy the IDs from existing sensors or generate new ones.

Compatible Autel TPMS Tools:

- TS408, TS508WF, TS501 PRO, TS601, TS608
- Diagnostic scan tools: MK808S-TS, MP808S-TS, MP900-TS, MS906 Pro-TS, MK906 Pro-TS, ITS600

The programming process typically involves selecting the vehicle make, model, and year on the Autel tool, then choosing to either copy an existing sensor ID or create a new one. Follow the on-screen instructions provided by your specific Autel TPMS tool.

99% OF VEHICLE COVERAGE

100% ID Clone-able, 100% Quality Control



- ☒ Sensor ID
- ☒ Tire Pressure
- ☒ Temperature
- ☒ Battery
- ☒ Location
- ☒ Frequency

Image: Autel diagnostic tool interface showing TPMS data parameters and programming capabilities.

WIRELESS UNLIMITED PROGRAMMING

Allowing up to 20 sensors to be programmed wirelessly at the same time



UP TO
20
MX-SENSOR

Note: ONLY Autel MX-Sensors can be Programmed.

Image: Illustration of wireless programming for Autel MX-Sensors, highlighting the ability to program multiple sensors simultaneously.

6. MAINTENANCE

Autel MX-Sensors are designed for long-term reliability with an automotive-grade battery expected to last over 6 years. Regular maintenance of your TPMS system primarily involves monitoring tire pressure and addressing any warning lights promptly.

- **Battery Life:** The sensor battery is sealed and not user-replaceable. Replace the sensor unit when the battery is depleted.
- **Valve Stem Inspection:** Periodically inspect the valve stem for signs of damage or corrosion. The interchangeable valve stem allows for replacement if necessary.
- **Tire Rotations:** If your vehicle requires TPMS relearn after tire rotations, use a compatible Autel TPMS tool to perform the procedure.

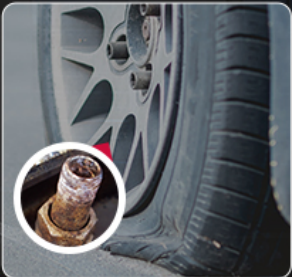
7. TROUBLESHOOTING

If your TPMS warning light illuminates or you suspect a sensor issue, consider the following common causes:

- **Low Tire Pressure:** The most common cause. Check and adjust all tire pressures to the vehicle manufacturer's specifications.
- **Sensor Battery Exhaustion:** TPMS sensor batteries typically last around 5-7 years. A dead battery will prevent the sensor from transmitting data.
- **Broken Sensor:** Physical damage from a collision or tire service can render a sensor inoperable.
- **Sensor Malfunction:** If tire pressures are correct and there's no visible damage, the sensor itself may have failed.
- **TPMS Warning Light:** If the light remains on after checking tire pressure, a sensor replacement or system relearn may be required.

In cases of sensor malfunction or battery exhaustion, replacement with a new Autel MX-Sensor and subsequent programming with an Autel TPMS tool will be necessary.

WHY WE NEED AUTEL MX-SENSORS?



Sensor Malfunction

Tire Rotation

Sensor Breakage

Tire Aging

An Essential Sensor For Tire Pressure

100% ID Clone-able: Accurately read tire pressure data and fast program new sensor.

Maximum Wireless Connection: Up to 20 MX-Sensors can be programmed at the same time.

Longer Battery Life: Support 5-6 battery lifespan and meet SAE standards.

99% of Vehicle Coverage: Work for global American, Asian, and European vehicle models.

Easy Installation Step: Press-in valve design is easy to install and disassemble.

Ideal TPMS Sensor: Suit for Autel TPMS tools TS408/ TS508/ TS601/ TS608/ ITS600/ MK808TS/ MP808TS, etc.

Image: Common scenarios indicating the need for TPMS sensor attention, such as malfunction, damage, or aging.

8. SPECIFICATIONS

Feature	Detail
Model Number	Autel MX-Sensor 2-in-1 (315MHz+433MHz)
Operating Frequencies	315MHz and 433MHz
Valve Type	Press-in, Interchangeable (Metal/Rubber)
Valve Stem Adjustment	15-30 degrees

Feature	Detail
Battery Life	6+ years (automotive-grade battery)
Vehicle Coverage	~99% of global vehicles (1996-2023)
Programming Method	Wireless, with compatible Autel TPMS tools
Compliance	SAE J1205/J1206/J2657 standards
Item Weight	Approximately 0.01 ounces (per sensor)
Package Dimensions	7.8 x 3.27 x 1.26 inches (for a set)
UPC	713830333810

9. WARRANTY AND SUPPORT

Autel provides comprehensive support for its MX-Sensors:

- **Quality Undertaking:** 1-year quality undertaking against manufacturing defects.
- **Return & Replacement:** 3-month return and replacement policy.
- **Technical Support:** 7/24 online response and lifetime technical instruction.
- **Defect Coverage:** Manufacturing defects are covered for 24 months or 24,000 miles.

For assistance, please contact Autel customer support through their official channels or the retailer where the product was purchased.

100% POST-SALE SERVICE



3-Month Return & Replacement



1-Year Quality Undertaking



7*24 Online Response



Lifetime Tech Instruction

Image: Overview of Autel's post-sale service commitments, including warranty and technical support.

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Anonymous

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

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