Autel AUL-1SENSOR

Autel Sensor-1 Dual Frequency MX TPMS Sensor User Manual

Model: AUL-1SENSOR

1. PRODUCT OVERVIEW

The Autel Sensor-1 is a universal Tire Pressure Monitoring System (TPMS) sensor designed to combine both 315MHz and 433MHz frequencies into a single unit. This design provides extensive vehicle coverage and simplifies inventory management. The sensor features a patented press-release valve stem for easy interchangeability between rubber and metal valve stems without the need for specialized tools. It is built to meet or exceed OEM sensor specifications for frequency strength and durability.

Image: Autel MX-Sensor with a rubber valve stem, displaying its serial number S7707L2175001061 and 4Nm torque specification.

Key Features:

- **Dual Frequency:** Supports both 315MHz and 433MHz frequencies.
- **High Vehicle Coverage:** Offers up to 98% vehicle coverage.
- **ID Clone-able:** Allows cloning of existing sensor IDs, eliminating the need for vehicle relearn procedures in many cases.
- **Wireless Programming:** Can be programmed wirelessly even after installation on the wheel.
- **Interchangeable Valve Stems:** Patented press-release design for easy swapping of rubber and metal valve stems.
- **Superior Battery Reliability:** Engineered for long battery life, comparable to OE sensors.
- **Lightweight Design:** Sensor body weighs only 12g, contributing to better stability and performance.
- **SAE Tested and Certified:** Meets SAE industry standards J1205 / J1206.

Image: Overview of Autel MX-Sensor 2-in-1 features, highlighting dual frequency, interchangeable valve stems, wireless programming, 98% vehicle coverage, SAE standards, 24-month/24,000-mile warranty, 5-year battery lifespan, and OEM-like performance.

2. Setup and Installation

Proper installation of the Autel MX-Sensor is crucial for accurate tire pressure monitoring. This process typically requires professional tools and expertise. Always refer to your vehicle's service manual for specific tire and wheel procedures.

Installation Steps:

1. **Loosening the Tire:** Use a tire changer to loosen the tire bead from the rim.
2. **Dismounting the Tire:** Carefully dismount the tire from the wheel, ensuring not to damage the existing sensor if present.
3. **Dismounting the Sensor:** Remove the old TPMS sensor from the wheel.
4. **Mounting Sensor and Valve:** Insert the new Autel MX-Sensor into the valve stem hole. Ensure the sensor body and valve stem are firmly connected. The patented press-release valve stem allows for easy assembly by hand. Tighten the screw to the specified torque (4 Nm).

5. **Mounting the Tire:** Mount the tire back onto the wheel, taking care to avoid contact with the sensor.

Image: Step-by-step installation diagram showing loosening, dismounting tire, dismounting sensor, mounting new sensor and valve, and mounting tire.


Image: Exploded view illustrating the components of the Autel MX-Sensor, including the screw, sensor body, valve stem (rubber grommet and valve core assembly), washer, screw nut assembly, and cap.

3. OPERATING AND PROGRAMMING

The Autel MX-Sensor requires programming with a compatible Autel TPMS tool before it can function correctly with your vehicle's TPMS system. These sensors are blank out-of-the-box and do not have a pre-assigned ID number.

Programming Methods:

- **ID Cloning:** If you have the ID of the old sensor, you can clone it to the new MX-Sensor. This often bypasses the need for a vehicle relearn procedure.
- **Auto Generate ID:** The Autel TPMS tool can generate a new, unique ID for the sensor. After programming, a vehicle relearn procedure may be necessary.
- **Wireless Programming:** The sensor's strong signal strength allows for wireless programming even when it is already mounted inside the wheel. Up to 16 sensors can be programmed in a single session with the latest Autel TPMS tools.

Compatible Autel TPMS Tools:

The Autel MX-Sensor is designed to work seamlessly with various Autel TPMS diagnostic and programming tools, including but not limited to:

- TS408
- TS508
- TS608
- MK808TS
- MS906TS
- ITS600
- Autel TPMS PAD ETO
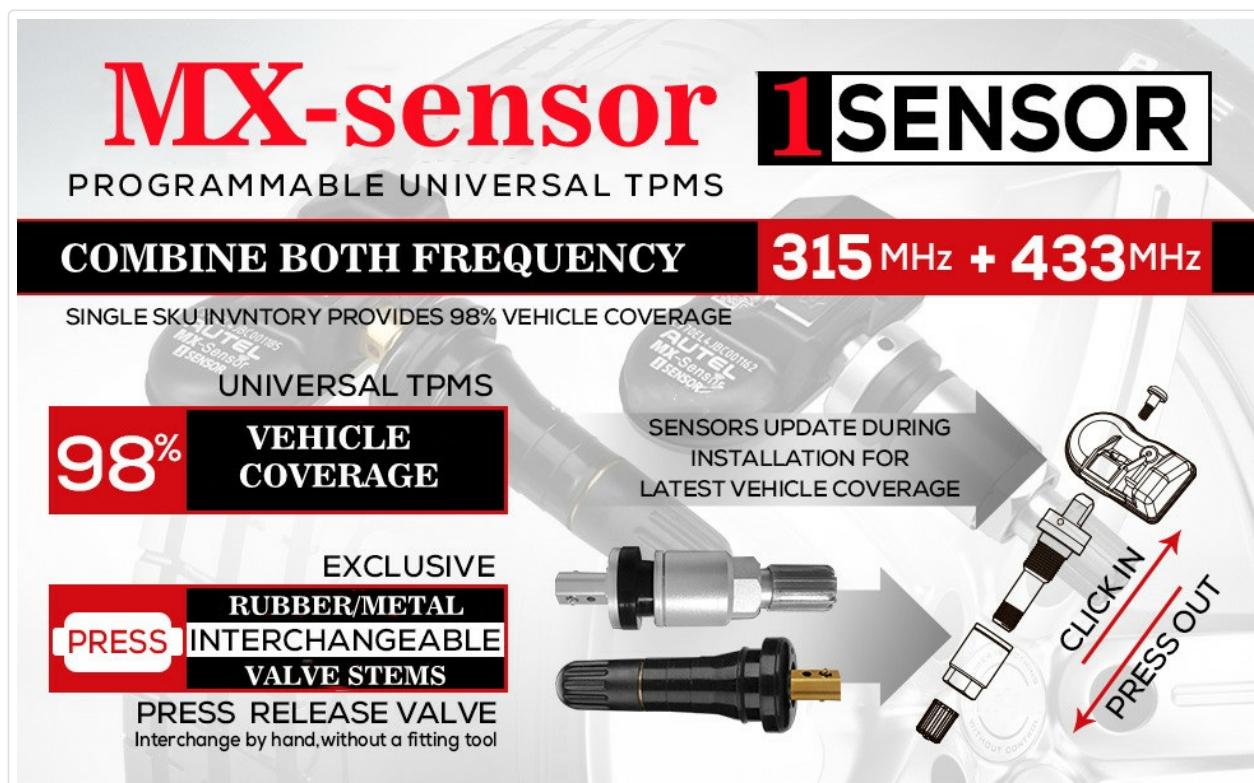
Image: Visual representation of Autel MX-Sensor compatibility with different Autel TPMS tools like TS408/ITS600, TS508, MS906TS/MP808TS, and MK808TS/TS608, demonstrating the programming process.

4. MAINTENANCE

The Autel MX-Sensor is designed for long-term reliability and minimal maintenance. Key aspects include:

- **Battery Life:** The sensor is equipped with a high-quality battery designed to last approximately 5 years under normal operating conditions.
- **Durability:** Constructed with robust materials to withstand typical road conditions and temperature variations.

- **Regular Checks:** While the sensor monitors tire pressure, it is recommended to periodically check tire pressure manually and inspect the valve stems for any signs of damage or wear.
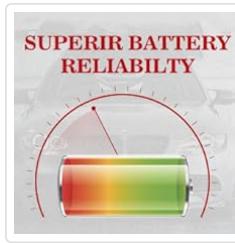
Image: Graphic indicating superior battery reliability, represented by a full battery gauge.

5. TROUBLESHOOTING

If you encounter issues with your Autel MX-Sensor, consider the following troubleshooting steps:

- **Sensor Not Programming:** Ensure your Autel TPMS tool software is up-to-date. Some sensors may require the tire pressure to be below 5 PSI for successful programming.
- **Intermittent Transmitting Issues:** Verify that the sensor is correctly installed and securely seated in the valve stem. Re-program the sensor if necessary. Ensure there are no external interferences.
- **TPMS Light Remains On:** After programming and installation, a vehicle relearn procedure might be required. Consult your vehicle's service manual or your Autel TPMS tool for the specific relearn procedure for your vehicle model.
- **Incorrect Readings:** Double-check that the sensor was programmed with the correct vehicle information and that the tire pressure is accurately set.

For persistent issues, contact Autel customer support or consult a certified automotive technician.

6. SPECIFICATIONS

| Feature	Specification
Brand	Autel
Model Number	AUL-1SENSOR
Frequencies Supported	315MHz and 433MHz
Sensor Body Weight	12g
Item Weight (with packaging)	1.41 ounces
Product Dimensions	3 x 3 x 1.25 inches
Battery Life	Approximately 5 years
SAE Standards	J1205 / J1206
Valve Stem Type	Rubber (interchangeable with metal)

7. WARRANTY INFORMATION
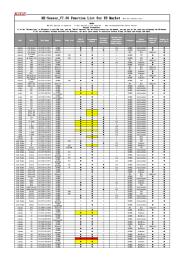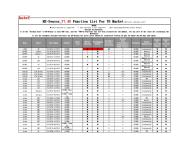
Autel guarantees the MX-Sensor against manufacturing defects for a period of **24 months or 24,000 miles**, whichever occurs first. Each Autel MX-Sensor includes a unique serial number for quality control and warranty

tracking purposes. Please retain your proof of purchase for warranty claims.

8. SUPPORT

For technical assistance, product inquiries, or warranty support, please contact Autel customer service through their official website or authorized distributors. Providing your sensor's serial number and proof of purchase will help expedite support requests.

Related Documents - AUL-1SENSOR

	[Autel MX-Sensor Programmable Universal TPMS Sensor Installation Guide](#) Comprehensive installation guide for the Autel MX-Sensor, a programmable universal TPMS sensor available for 433MHz and 315MHz frequencies with metal and rubber valves. Includes safety instructions, warranty information, and detailed step-by-step installation procedures.
	[AUTEL MX-SENSOR Programmable Universal TPMS Sensor Installation Guide](#) Comprehensive installation guide for the AUTEL MX-SENSOR Programmable Universal TPMS Sensor. Covers safety, step-by-step installation for metal and rubber valve types, technical specifications, warranty, and regulatory compliance.
	[AUTEL MX-Sensor CVS-A01 Programmable TPMS Sensor for Commercial Vehicles: Installation & Safety Guide](#) Detailed installation and safety guide for the AUTEL MX-Sensor CVS-A01 programmable TPMS sensor for commercial vehicles. Covers product features, warranty, technical specifications, and step-by-step installation procedures for tire removal, sensor mounting, and tire reinstallation.
	[Autel MX-Sensor V7.50 Function List for EU Market](#) Comprehensive function list for Autel MX-Sensor V7.50, detailing compatibility, features, and specifications for various vehicle makes and models in the European market. Includes sensor manufacturer and relearn type information.
	[Autel MX-Sensor V7.40 Function List for US Market](#) A comprehensive function list for Autel MX-Sensors, detailing compatibility and features for various vehicle makes and models in the US market, version 7.40.
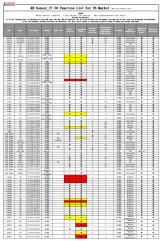
[Autel MX-Sensor V7.50 Function List for US Market](#)
This document details the Autel MX-Sensor V7.50 compatibility list for the US market, covering numerous vehicle makes and models. It provides essential information on sensor frequency, relearn types, and support status for Autel tools, serving as a critical reference for automotive technicians and enthusiasts.

Documents - Autel – AUL-1SENSOR

[ProSource Seasonal Promotions & Buying Guide](#)
Explore the latest seasonal promotions and product offerings from ProSource, featuring top brands like TOPDON, Cobratec Knives, KTC, Ratchetknob, ATD, Hessaire, Portacool, Robinair, and Milwaukee. This guide highlights diagnostic scanners, hand tools, fans, evaporative coolers, air conditioning service equipment, power tools, and more, with special offers and pricing valid July-September 2025.
lang:en score:7 filesize: 53.46 M page_count: 68 document date: 2025-06-30