Marsflex APSP07401A-1

Marsflex TPMS Sensors User Manual

Model: APSP07401A-1
Brand: Marsflex

1. Product Overview

The Marsflex TPMS (Tire Pressure Monitoring System) Sensors are designed to provide real-time tire pressure data, enhancing driving safety and tire longevity. These sensors are pre-programmed for ease of installation and are manufactured to OEM specifications, ensuring reliable performance.

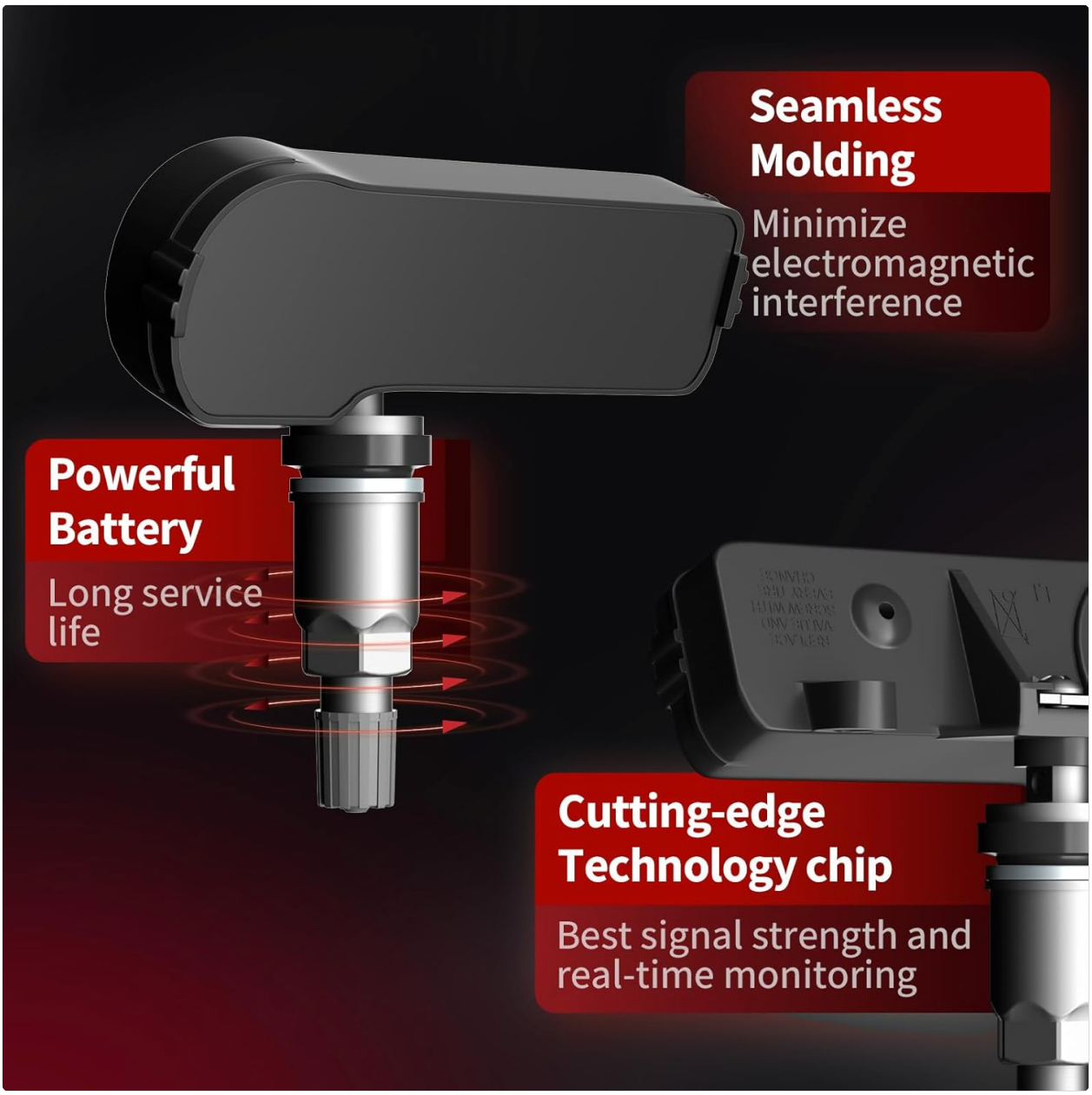

Figure 1: Internal components of a Marsflex TPMS Sensor, highlighting the powerful battery for long service life, seamless molding to minimize electromagnetic interference, and a cutting-edge technology chip for best signal strength and real-time monitoring.

Key Features:

- **Pre-programmed:** No additional programming required before installation.
- **High Quality Components:** Equipped with a CR2032B battery (5-8 years lifespan) and advanced chip technology.
- **Wide Operating Temperature:** Designed to function reliably from -40°C to +125°C.
- **Real-time Monitoring:** Provides accurate and immediate tire condition readings.

2. Compatibility

Marsflex TPMS sensors are compatible with a wide range of GM vehicles. Please verify fitment using one of the methods below to ensure proper operation.

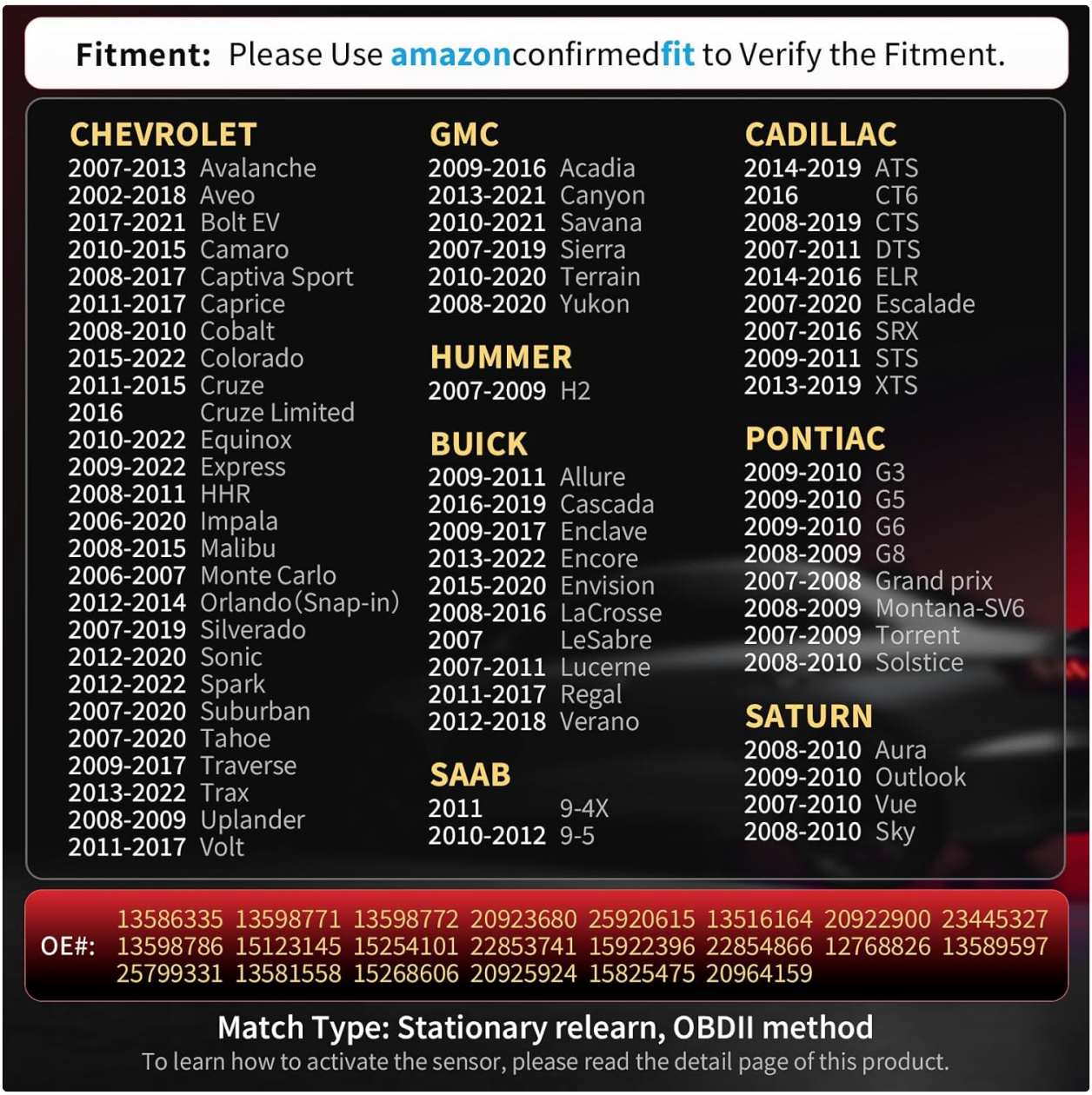

Figure 2: Detailed compatibility chart for Marsflex TPMS sensors, showing specific Chevrolet, GMC, Cadillac, Hummer, Buick, Pontiac, Saturn, and SAAB vehicle models and their corresponding model years. This chart also lists various OE replacement numbers.

Compatible OE Numbers:

These sensors replace the following Original Equipment (OE) numbers:

- 13586335, 13598771, 13598772, 20923680, 13516164, 20922900, 23445327, 13589597, 25799331, 22854866, 25920615, 12768826, 13581558, 15268606, 20925924, 15825475, 20964159, 22853741, 15922396, 15254101, 15123145, 13589255, 15202272, 25952370, 13598786.

Verification Methods:

To ensure proper fitment for your vehicle, consider these verification methods:

1. **Use Amazon Confirmed Fit:** Utilize the Amazon vehicle fitment tool to confirm compatibility with your specific make, model, and year.

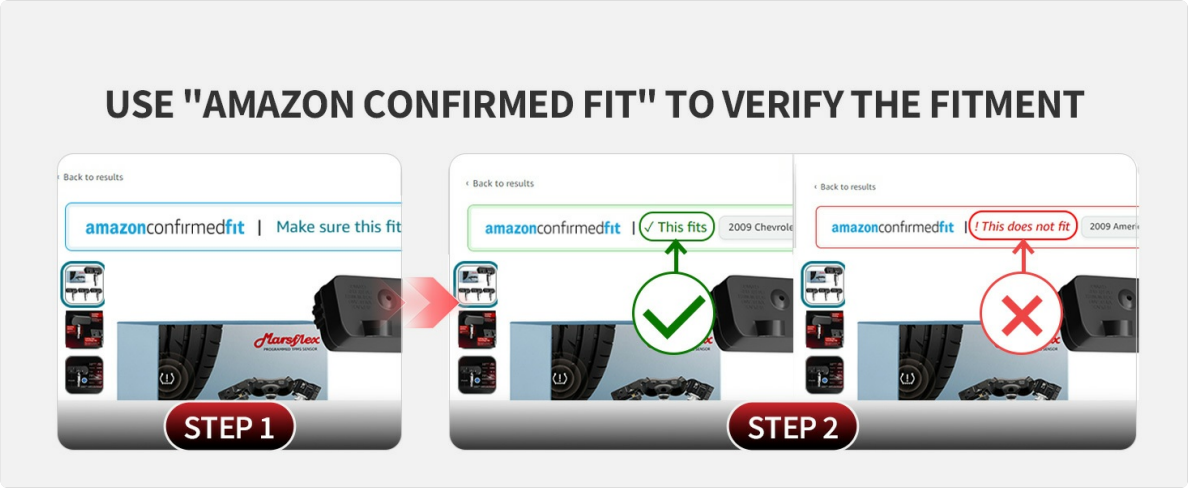

Figure 3: Illustration demonstrating the process of using Amazon's 'Confirmed Fit' feature to check if the TPMS sensors are compatible with a specific vehicle, showing both a 'This fits' and 'This does not fit' example.

2. **Check OE Number of Previous Sensors:** Compare the OE number of your existing sensors with the list provided above.

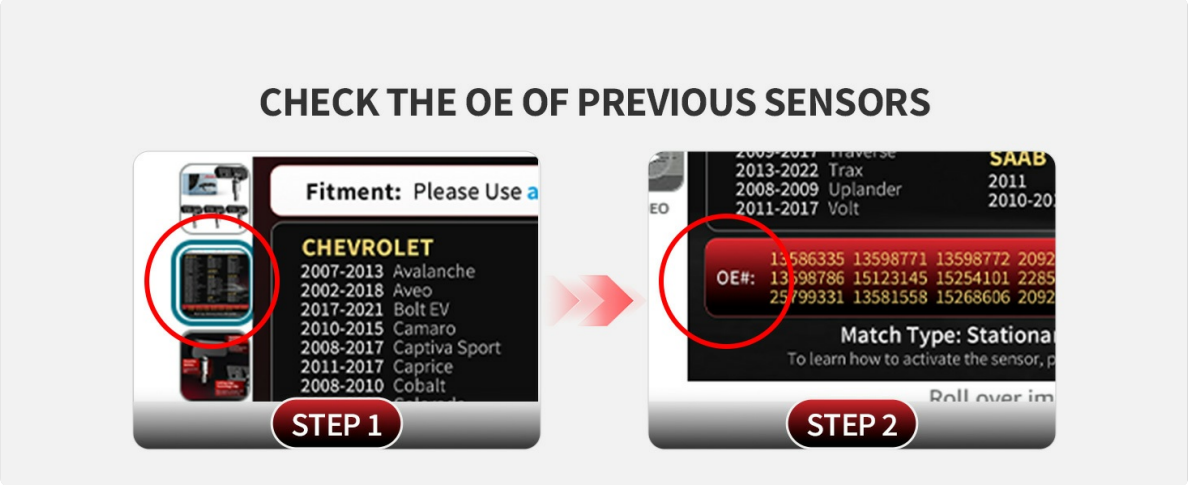

Figure 4: Visual guide on how to locate and check the Original Equipment (OE) number on your vehicle's existing TPMS sensors to ensure compatibility with the replacement Marsflex sensors.

3. Installation (Setup)

Installing the Marsflex TPMS sensors is a straightforward process. It is recommended to have this procedure performed by a qualified technician or follow these steps carefully.

Figure 5: Step-by-step guide for TPMS sensor installation. Steps include: 1. Remove the original valve from the tire. 2. Install the new sensor. 3. Inflate the tire. 4. Tighten the nut and valve-cap. 5. Perform a dynamic balance test. 6. Adjust and counterweight by putting the weight bar.

Installation Steps:

1. **Remove Original Valve:** Carefully remove the existing valve from the tire.
2. **Install New Sensor:** Insert the new Marsflex TPMS sensor into the valve stem opening.
3. **Inflate Tire:** Inflate the tire to the manufacturer's recommended pressure.
4. **Tighten Nut and Valve-Cap:** Securely tighten the retaining nut and replace the valve cap.
5. **Perform Dynamic Balance Test:** Balance the wheel assembly to ensure smooth operation.
6. **Adjust Counterweight:** Add necessary counterweights to achieve proper balance.

4. Activation (Operating)

After installation, the new TPMS sensors must be activated or 'relearned' by the vehicle's system. This typically requires a scan tool.

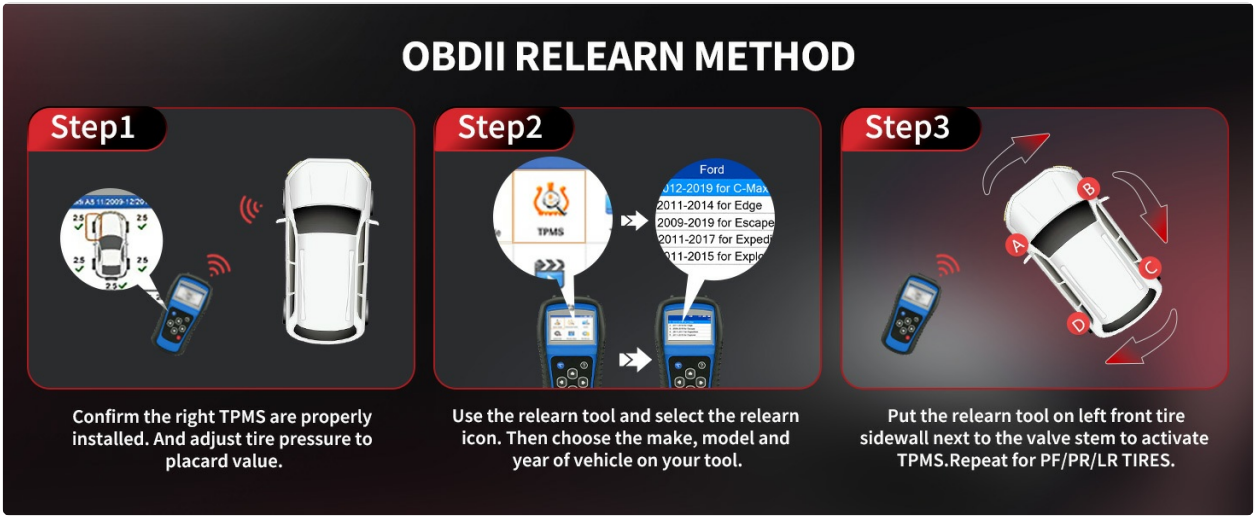

Figure 6: OBDII Relearn Method, Steps 1-3. This diagram shows confirming proper TPMS installation and adjusting tire pressure, using a relearn tool to select vehicle details, and activating the TPMS sensor by placing the tool near the valve stem.

Figure 7: OBDII Relearn Method, Steps 4-6. This diagram shows connecting the OBDII tool, following the tool's learning instructions to upload ID data to the ECU, and driving the vehicle above 30 mph for at least 10 minutes to complete the relearn process.

OBDII Relearn Method:

1. **Confirm Installation & Pressure:** Ensure the TPMS sensors are properly installed and adjust tire pressure to the placard value.
2. **Connect Scan Tool:** Use a compatible relearn tool. Select the relearn icon, then choose your vehicle's make, model, and year.
3. **Activate Sensors:** Place the relearn tool on the front left tire sidewall next to the valve stem to activate the TPMS. Repeat for all tires (front passenger, rear passenger, rear driver).
4. **Connect OBDII Module:** Use the OBDII cable or Bluetooth OBDII module to connect the tool to the vehicle. Turn ignition to ON with the engine off.
5. **Upload ID Data:** Follow the tool's screen instructions to upload ID data to the ECU until successful relearn.
6. **Drive Vehicle:** Turn ignition to OFF, then start the engine. Drive the vehicle above 30 miles per hour for at least 10 minutes to finalize the relearn process.

Benefits of TPMS:

A properly functioning TPMS provides several critical benefits:

Figure 8: Reasons to use TPMS. Benefits include preventing flat tires, monitoring tire leaks, balancing tires, saving fuel, extending tire life, and reducing wear on the suspension system.

- **Prevent Flat Tires:** Early detection of pressure loss can prevent sudden flats.
- **Monitor Tire Leaking:** Alerts you to slow leaks before they become critical.
- **Balance Tire:** Helps maintain proper tire pressure for optimal handling.
- **Save Oil (Fuel):** Correct tire pressure improves fuel efficiency.
- **Extend Tire Life:** Prevents premature wear due to under or over-inflation.
- **Reduce Suspension System Wear:** Proper tire pressure reduces strain on vehicle suspension components.

5. Maintenance

Marsflex TPMS sensors are designed for long-term reliability with minimal maintenance. The internal battery has a lifespan of 5-8 years. No user-serviceable parts are inside the sensor unit itself. Regular tire maintenance, including proper inflation and rotation, will help ensure the longevity of both your tires and the TPMS sensors.

6. Troubleshooting

If you encounter issues with your Marsflex TPMS sensors after installation, consider the following:

- **Sensor Not Activating:** Ensure the relearn procedure (Section 4) has been followed correctly. Some vehicles may require multiple attempts or specific driving conditions to complete the relearn.
- **Incorrect Readings:** Verify that tires are inflated to the correct pressure according to your vehicle's specifications. Ensure the sensors are properly seated and the valve stem nut is tightened.
- **TPMS Light Remains On:** If the TPMS warning light persists after successful installation and relearn, there may be an underlying issue with the vehicle's TPMS module or wiring. Consult a professional mechanic.

For persistent issues, please refer to the Warranty and Support section for contact information.

7. Specifications

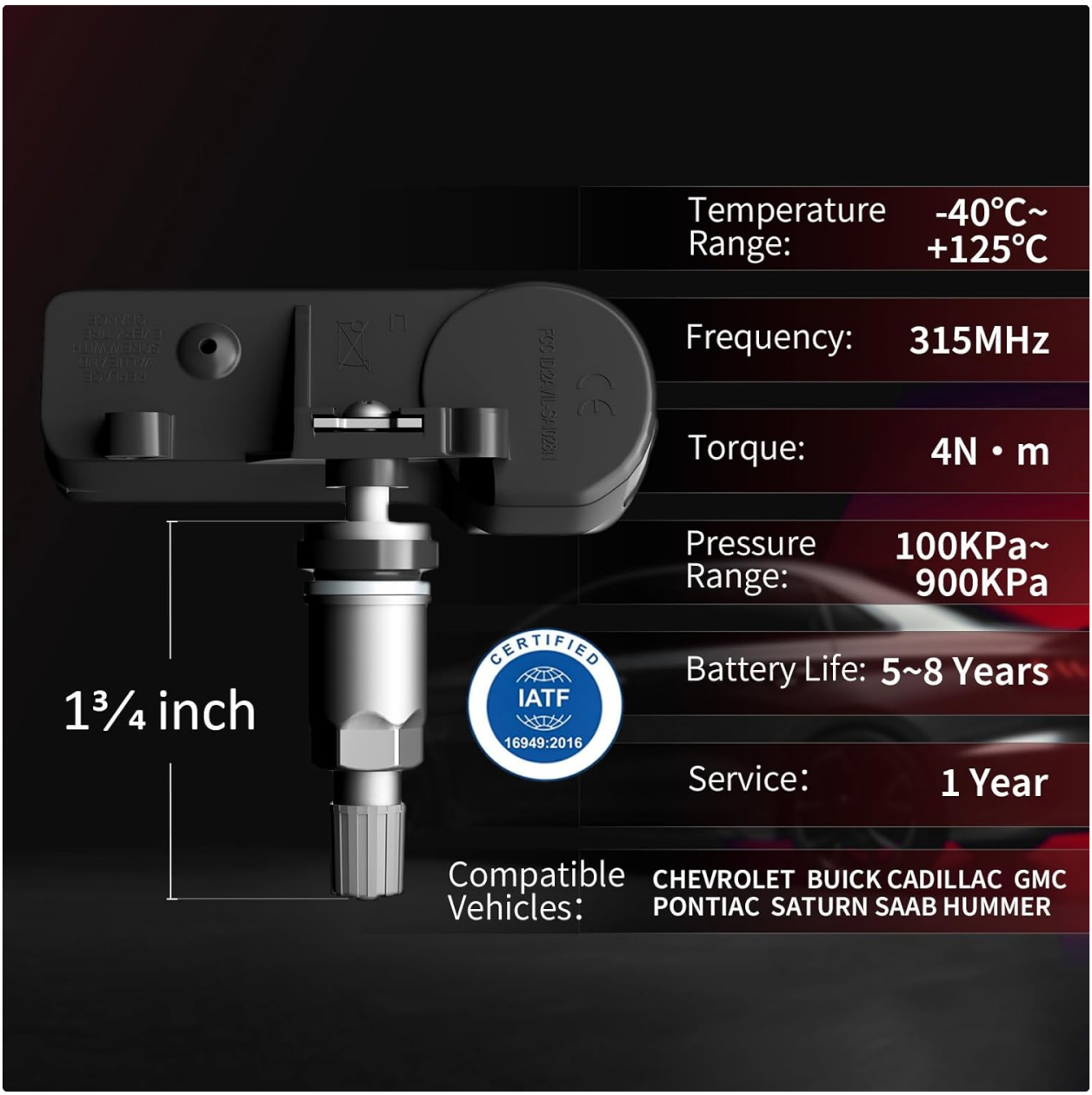

Figure 9: Key specifications of the Marsflex TPMS sensor, including temperature range, frequency, torque, pressure range, battery life, service period, and compatible vehicle brands.

Specification	Value
Brand	Marsflex
Model Number	APSP07401A-1
Item Dimensions (L x W x H)	2.83 x 2.28 x 0.98 inches
Material	Acrylonitrile Butadiene Styrene, Metal
Measuring Range	30 - 50 PSI
Mounting Type	Tire Mount
Output Type	Push-Pull
Upper Temperature Rating	125 Degrees Celsius
Item Weight	6.4 ounces

Specification	Value
Batteries	4 Lithium Metal batteries (included)
Frequency	315MHz

8. Warranty and Support

Marsflex TPMS sensors come with a**1-year service warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use.

Contacting Support:

If you have any questions, concerns, or require technical assistance, please contact Marsflex customer support. You can typically find contact information through the seller's page on the platform where you purchased the product.

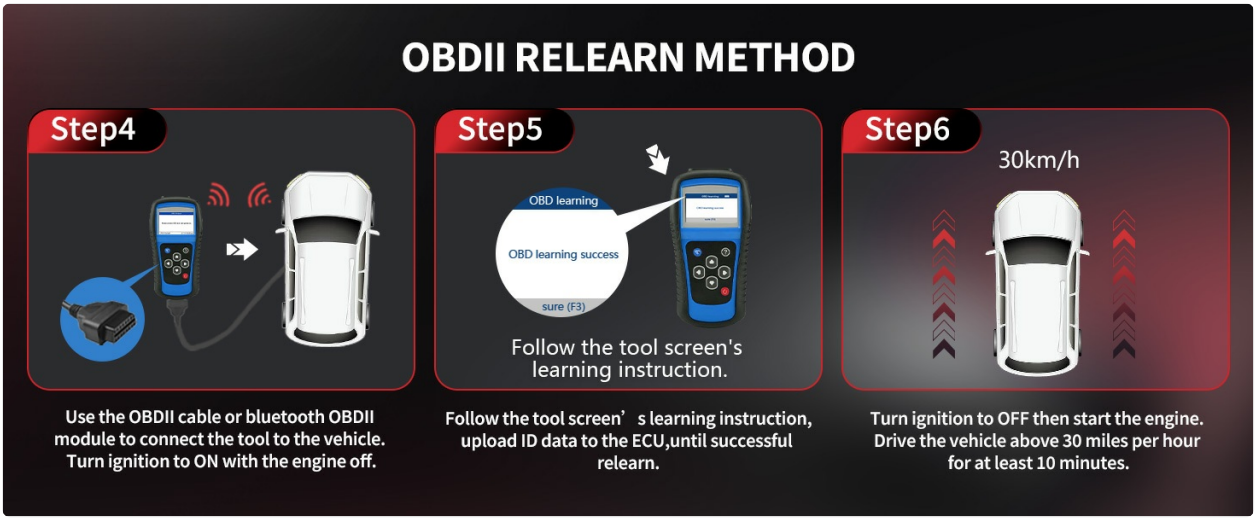

Figure 10: Guide on how to contact Marsflex for support. This typically involves navigating to the seller's information on the product page and using the 'Ask a question' feature.

When contacting support, please have your product model number (APSP07401A-1) and purchase details ready to expedite the process.