



## ORO發射器 FRSFM13B

Tire Pressure Monitor System (TPMS) Sensor Assemblies



### WARNING

Read all instructions and warnings before installation. Refer to Mitchell Manual for installation specifications. Professional installation only. These Tire Pressure Monitor System Sensor assemblies are replacement or maintenance parts for motor vehicles that have a factory installed Tire Pressure Monitoring System (TPMS).

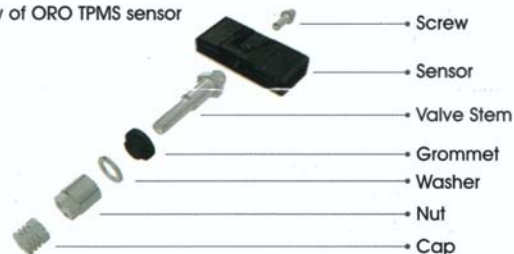
#### Caution

Each TPMS sensor is designed and manufactured to operate in a specific motor vehicle year, make and model, using the proper frequencies to communicate with the motor vehicle TPMS system. Only install TPMS sensors designated for your specific motor vehicle year, make, and model. Improper installation will cause the motor vehicle TPMS system to fail to operate properly.

Do not install sensors in damaged wheels. Upon completion of installation, test the motor vehicle TPMS system using procedures described in Mitchell Manual to confirm proper installation. If the TPMS system fails to operate properly, check all installation procedures to ensure proper installation and retest. If the TPMS system continues to fail to operate, immediately consult with an authorized motor vehicle dealership.

If the OEM equipment wheels or tires are not used it is the responsibility of the vehicle owner to ensure that the TPMS system is functioning properly. The vehicle owner expressly assumes sole and complete responsibility for the TPMS and vehicle function if the OEM equipment wheels and tires are not used. Failure to ensure that the TPMS system is functioning properly can result in severe injury or death.

#### Exploded View of ORO TPMS sensor



#### Caution

Each time a tire is serviced or dismantled, or if the sensor is removed or replaced, it is MANDATORY to replace the grommet, washer, nut, and valve core to ensure proper sealing.

It is MANDATORY to replace the sensor if it is externally damaged.



**WARNING FAILURE TO FOLLOW INSTRUCTIONS OR THE USE OF IMPROPER TPMS SENSORS MAY RESULT IN THE MOTOR VEHICLE TPMS FAILURE CAUSING PROPERTY DAMAGE PERSONAL INJURY OR DEATH.**

Transmitter Module Specification	
Battery Life	Up to 5- 7 years in normally use
Power Supply	3.6 V Lithium battery
Operating Humidity	Max 95%
Storage Temperature	-40 °C to 125 °C
Operation Temperature	-40 °C to 115 °C
Transmitting Power	Max 5 dBm
Transmitting Frequency	315 MHz
Transmitting Modulation	FSK & ASK
Pressure Monitoring Range	0 ~ 87 psi (or 0-600 kPa or 0-6 bar)
Pressure Reading Accuracy	±1 psi (or ±10 kPa ; ±0.1 bar)
Temperature Monitoring Range	-40 °C to 115 °C
Temperature Reading Accuracy	±4 °C
Module Weight	31.6g ± 1g

#### FCC

Federal Communications Commission (FCC) Statement This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. To maintain compliance with FCC RF exposure compliance requirements, please avoid direct contact to the transmitting antenna during transmitting.

" This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provide with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance. "