



# SCHRADER ELECTRONICS ATFP3 Tyre Pressure Monitoring Sensor User Manual

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## SCHRADER ELECTRONICS ATFP3 Tyre Pressure Monitoring Sensor

### USER MANUAL

#### Tyre Pressure Monitoring Sensor ATFP3

The TPMS Transmitter is installed to the valve stem in each tyre of a vehicle. The unit measures tyre pressure periodically and transmits this information by RF communication to a receiver inside the vehicle. In addition, the TPMS Transmitter performs the following functions:

- Determines a temperature compensated pressure value.
- Determines any abnormal pressure variations in the wheel.
- Monitors the state of the Transmitters' internal battery and informs the receiver of a low battery condition.

## **Modes**

### **Rotating Mode**

While the sensor/transmitter in the Rotating Mode, it shall satisfy the following requirements. The sensor/transmitter shall transmit an instantaneous measured data, if a pressure change of 2.0 psi from the last transmission or greater has occurred with respect to the following conditions. If the pressure change was a decrease of pressure, the sensor/transmitter shall transmit immediately every time it detects the 2.0-psi or greater pressure changes from the last transmission.

If the pressure change of 2.0 psi or greater was an increase of pressure, the sensor shall not react to it.

### **Stationary Mode**

While the sensor/transmitter in the Stationary Mode, it shall satisfy the following requirements. The sensor/transmitter shall transmit an instantaneous measured data, if a pressure change of 2.0 psi from the last transmission or greater has occurred with respect to the following conditions. If the pressure change was a decrease of pressure, the sensor/transmitter shall transmit immediately every time it detects the 2.0-psi or greater pressure changes from the last transmission.

If the pressure change of 2.0 psi or greater was an increase of pressure, the silent period between the RPC transmission and the

last transmission shall be 30.0 seconds, and the silent period between the RPC transmission and the next transmission (Normal scheduled transmission or another RPC transmission) shall also be 30.0 seconds, to be in compliance of FCC Part 15.231.

### **Factory Mode**

The factory mode is the mode that the sensor shall transmit more often in the factory to assure the programmability of the sensor ID during the manufacturing process.

### **Off Mode**

This Off Mode is only for production parts sensors that are used for the builds during the production process and not in the service environment.

### **LF Initiation**

The sensor/transmitter must provide data upon the presence of an LF signal. The sensor must react (Transmit and provide data) no later than 150.0 ms after the LF data code has been detected at the sensor. The sensor/transmitter must be sensitive (As sensitivity is defined in Table 1) and able to detect the LF field.

OEM product. Per 47 CFR 2.909, 2.927, 2.931, 2.1033, 15.15(b) etc..., the grantee must ensure the end-user has all applicable / appropriate operating instructions. When end-user instructions are required, as in the case of this product, the grantee must notify the OEM to notify the end- user.

Sensata Technologies will supply this document to the reseller/distributor dictating what must be included in the end user's manual for the commercial product.

Information to be included IN the end USER'S MANUAL

The following information (in blue) must be included in the end product user's manual to ensure continued FCC and Industry Canada regulatory compliance. The ID numbers must be included in the manual if the device label is not readily accessible to the end user. The compliance paragraphs below must be included in the user's manual.

\*\*\*\*\* \*

## **FCC ID:2ATIMATFPG3**

### **IC: 25094- ATFPG3**

This device complies with Part 15 of the FCC Rules and with Licence exempt RSS standards of Industry Canada. 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.

Any changes or modifications not expressly approved by the party responsible for compliance could void the users authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

This equipment complies with FCC/ISED radiation exposure limits set forth for an uncontrolled environment.

Cet équipement est conforme aux limites d'exposition aux rayonnements FCC/ISED établies pour un environnement non contrôlé.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

[http://www.tpmseuroshop.com/documents/declaration\\_conformities](http://www.tpmseuroshop.com/documents/declaration_conformities)

**WARNING:** Changes or modifications not expressively approved by the party responsible for compliance could void the user's authority to operate the equipment. The term "IC:" before the radio certification number only signifies that Industry Canada technical specifications were met.

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## **Specifications**

- **Manufacturer:** Schrader Electronics Ltd
- **Model:** ATFPG3
- **Function:** Tyre Pressure Monitoring Sensor
- **Location:** Unit 11 Technology Park Belfast Road Antrim, Northern Ireland, BT41 1QS

## **FAQ (Frequently Asked Questions)**

**Q: What is the purpose of the TPMS Transmitter?**

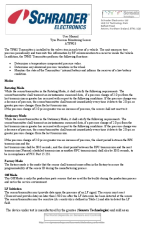
A: The TPMS Transmitter is installed in each tire of a vehicle to measure tire pressure periodically and transmit this information to a receiver inside the vehicle via RF communication.

**Q: What are the different modes of operation for the TPMS Transmitter?**

A: The TPMS Transmitter has Stationary Mode, Factory Mode, Off Mode, and LF Initiation mode. Each mode serves a specific function related to tire pressure monitoring and sensor operation.

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## Documents / Resources

	<p><a href="#">SCHRADER ELECTRONICS ATFPG3 Tyre Pressure Monitoring Sensor</a> [pdf] User Manual ATFPG3, ATFPG3 Tyre Pressure Monitoring Sensor, Tyre Pressure Monitoring Sensor, Pressure Monitoring Sensor, Monitoring Sensor, Sensor</p>
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## References

- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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