Schrader Electronics BG6FD4 TPMS Transmitter User Manual

Contents

Schrader Electronics BG6FD4 TPMS Transmitter

Product Information

- **Model**: BG6FD4
- **Manufacturer:** Schrader Electronics Ltd.

The TPMS Transmitter is a device that is installed on the valve stem of each tire in a vehicle. It measures the tire pressure periodically and transmits this information to a receiver inside the vehicle using RF communication. The TPMS Transmitter also has additional functions, such as notifying the receiver of a low battery condition.

Modes

- **Stationary Mode:** In this mode, the sensor/transmitter follows certain requirements. It transmits an instantaneous measured data if there is a pressure change of 2.0 psi or greater compared to the last transmission. If the pressure change is a decrease in pressure, the sensor/transmitter transmits immediately every time it detects a 2.0-psi or greater pressure change. If the pressure change is an increase in pressure, there is a silent period of 30.0 seconds between the RPC transmission and the last transmission, as well as between the RPC transmission and the next transmission.
- **Factory Mode:** This mode is used during the manufacturing process to ensure the programmability of the sensor ID. The sensor transmits more often in this mode.
- **Off Mode:** The Off Mode is specifically for production parts sensors used 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. It should 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 and able to detect the LF field.

Regulatory Information
Taiwan: [regulatory information]

Product Usage Instructions

Installation

1. Ensure that the vehicle is parked in a safe and level area.
2. Locate the valve stem of each tire.
3. Attach the TPMS Transmitter to the valve stem, ensuring a secure and tight fit.
4. Repeat this process for all tires of the vehicle.

Monitoring Tire Pressure
To monitor the tire pressure using the TPMS Transmitter, follow these steps:

1. Start the vehicle’s engine and ensure that all tires are properly inflated.
2. Check the TPMS receiver inside the vehicle for any notifications or warnings regarding tire pressure.
3. If a low tire pressure warning is received, locate the affected tire and inspect it for any visible damage or punctures.
4. If necessary, inflate the tire to the recommended pressure level.
5. Once the tire pressure has been adjusted, check the TPMS receiver again to ensure that the warning has cleared.

Battery Replacement
If the TPMS Transmitter notifies the receiver of a low battery condition, follow these steps to replace the battery:

1. Remove the TPMS Transmitter from the valve stem of the affected tire.
2. Open the transmitter casing to access the battery compartment.
3. Remove the old battery and replace it with a new one of the same type and size.
4. Close the transmitter casing securely.
5. Reattach the TPMS Transmitter to the valve stem.

Factory Mode Usage
The Factory Mode is intended for use during the manufacturing process and is not relevant for regular product usage. Only authorized personnel should access and utilize this mode.

Specifications

Model	BG6FD4
Manufacturer	Schrader Electronics Ltd.
Communication	RF
Pressure Measurement Range	[range]
Battery Type	[battery type]

FAQ (Frequently Asked Questions)

- **Q: How often should I check the tire pressure using the TPMS Transmitter?**
  A: It is recommended to check the tire pressure at least once a month or before long trips to ensure optimal performance and safety.
- **Q: Can I install the TPMS Transmitter on my own?**
  A: Yes, the installation process is simple and can be done by following the provided instructions. However, if you are unsure or uncomfortable, it is recommended to seek professional assistance.
- **Q: How long do the batteries in the TPMS Transmitter last?**
  A: The battery life of the TPMS Transmitter may vary depending on usage and conditions. It is recommended to replace the batteries as soon as a low battery notification is received to ensure continuous operation.
- **Q: Can I use the TPMS Transmitter on different vehicles?**
  A: The TPMS Transmitter is designed for specific vehicles and may not be compatible with all models. Refer to the product manual or consult with the manufacturer for compatibility information.

SCHRADER ELECTRONICS LTD.
MODEL: BG6FD4

USER MANUAL

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.

Regulatory information

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**: MRXBG6FD4
- **IC ID:** 2546A-BG6FD4

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.

Exposure to radio frequency energy. The radiated output power of this device meets the limits of FCC/ISED Canada radio frequency exposure limits. This device should be operated with a minimum separation distance of 20 cm (8 inches) between the equipment and a person's body.

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.

Documents / Resources

	Schrader Electronics BG6FD4 TPMS Transmitter [pdf] User Manual MRXBG6FD4, BG6FD4 TPMS Transmitter, BG6FD4, TPMS Transmitter, Transmitter

References

- User Manual