



Doran Manufacturing 3604N TPMS Sensor with LF User Manual

[Home](#) » [Doran Manufacturing](#) » Doran Manufacturing 3604N TPMS Sensor with LF User Manual 

Doran Manufacturing 3604N TPMS Sensor with LF



Contents

- 1 General Description
- 2 Operation Functions
 - 2.1 Data Accuracy
 - 2.2 TPMS chip
 - 2.3 RF chip
 - 2.4 Battery information
- 3 Environmental requirement
 - 3.1 Federal Communications Commission (FCC) Interference Statement
 - 3.2 RF exposure warning
 - 3.3 Canadian Compliance Statement
- 4 Documents / Resources
- 5 Related Posts

General Description

Tire pressure sensor is composed of RF chip, battery, antenna and Rf matching network. It is applied to monitor tire pressure, temperature and acceleration and the tire data is transmitted via center frequency 434.1MHz.

Operation Functions

Data Accuracy

(measure @0~70)

- Temperature: $\pm 2^{\circ}\text{C}$
- Pressure: $\pm 2\text{psi}$

TPMS chip

- Chip model#: Freescale FXT871511DT1
- Working temperature: $-40\sim 120$
- Operation pressure range: $5\sim 200\text{psi}$
- Working Voltage: $2.2\sim 3.6\text{VDC}$

RF chip

- Chip model: Maxim TDK5110F
- Max. RF signal strength: 10dBm

Battery information

- **Manufacturer:** EVE EF651615T/2P-B (Li-SOCL2)
- **Capacity:** 400mAh
- **Normal voltage:** 3.6V
- **Operation temperature:** $-40\sim 125$
- **Estimated life span:** 9 years

Environmental requirement

The sensor will be mounted onto the valve stem. For the OTR model, it has the built-in filter which can work with the tire that has the liquid inside.

- **Temperature requirement:** -40~125 for storage -40~105 for operation
- **Vibration:** Refer to ISO16750-3, 4.1.2.9 Test IX — Commercial vehicle, unsprung masses
- **IP protection:** IP6k9k (with sensor screwed onto valve stem) Codes for
- **Climatic loads:** E

Federal Communications Commission (FCC) Interference 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 generate, 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.

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. 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.

RF exposure warning

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. The equipment must not be co-located or operating in conjunction with any other antenna or transmitter.

Canadian Compliance Statement

This device complies with Industry Canada license-exempt RSSs. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference, including interference that may cause undesired operation of the device

IMPORTANT NOTE:

Radiation Exposure Statement: This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment.

Documents / Resources

