

User Manual

1 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.

2 Operation Functions

2.1 Data Accuracy

(measure @0~70°C)

- Temperature: +/-2°C
- Pressure: +/-2psi

2.2 TPMS chip

- Chip model#: Freescale :NTM88
- Working temperature: -40~120°C
- Operation pressure range: 0~188psi
- Working Voltage: 2.1~3.6VDC

2.3 Battery information

- Manufacturer: CR2450HRHAB (MnOOLi)
- Capacity: 550mAh
- Normal voltage: 3.0V
- Extreme voltage: 3.3V
- Operation temperature: -40~125°C
- Estimated life span: 9 years

3 Environmental requirement

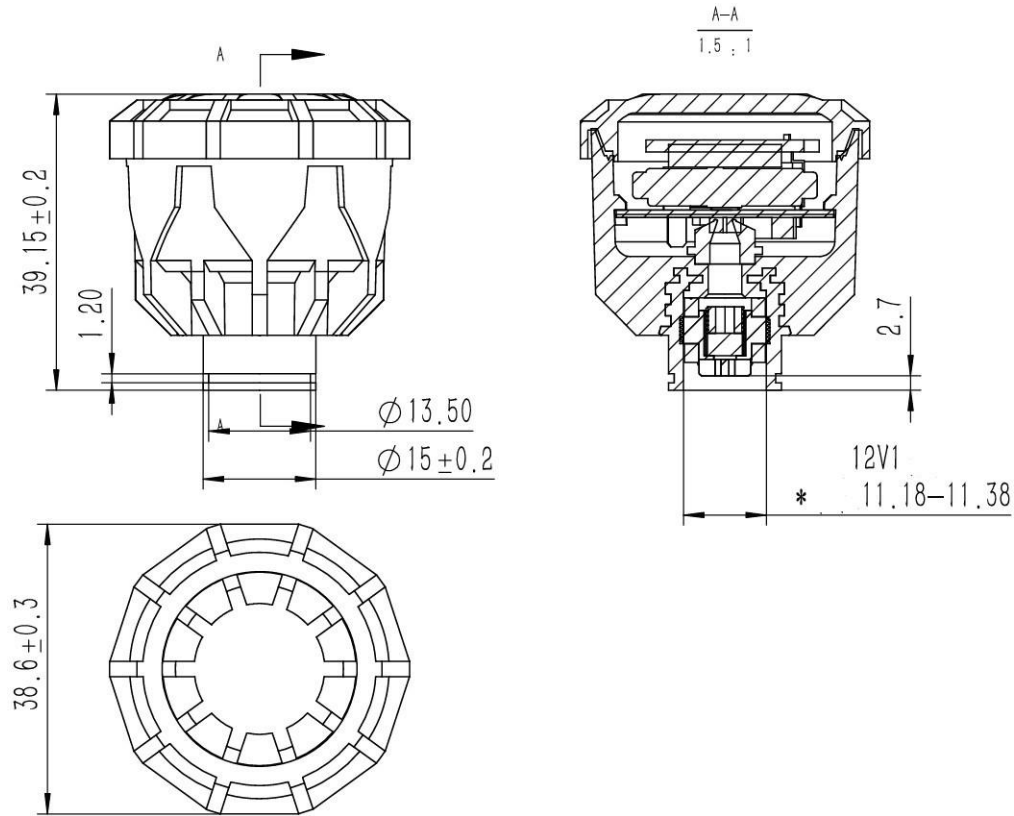
The sensor will be mounted onto the valve stem. For the OTR model, it has the built-in filter which can work with the tire that has the liquid inside.

- Temperature requirement: -40°C~125°C for storage
-40°C~120°C for operation
- Vibration: Refer to ISO16750-3, 4.1.2.9 Test IX — Commercial vehicle, unsprung masses

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- IP protection: IP6k9k (with sensor screwed onto valve stem)
- Codes for Climatic loads: E

4 Structural dimensions



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This device complies with Part 15 of the FCC Rules and contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS standard(s).

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 of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique 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'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

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

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 or more 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.

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—Consult the dealer or an experienced radio/TV technician for help.

Radiation Exposure Statement

This equipment complies with FCC&ISED radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20 cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.