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PIRELLI CTSN-09S Cyber Tyre Sensor Node



Product Specifications

- Product Name: Advanced Tyre Integrated Sensor
- Model: Pirelli Cyber Tyre Sensor Node (CTSN-09)
- Wireless Interface: 2.4 GHz ISM band (2.4000 – 2.4835 GHz)
- Battery Type: Lithium
- Battery Safety: Non-replaceable, non-rechargeable, do not disassemble

Product Usage Instructions

Safety Information

Warning: The Sensor is equipped with a lithium battery that is not replaceable or rechargeable. Always adhere to the specified conditions of use for the tyre to ensure safety.

Regulatory Compliance

The equipment complies with Part 15 of the FCC Rules. Follow these conditions:

1. The equipment should not cause harmful interference.
2. The equipment must accept any received interference.

For Class B digital devices compliance:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and the receiver.
3. Connect to a different circuit than the receiver's.
4. Consult a professional for assistance.

Battery Safety

Warning: Improper use of lithium batteries can be harmful. Follow these precautions:

- Do not dispose of batteries in a fire.
- Avoid heating or exposing batteries to heat sources.
- Do not disassemble batteries.

If battery contents leak:

- **Inhalation:** Move to a ventilated area if fumes are inhaled.
- **Skin Contact:** Wash with water and seek medical attention for irritation.

Safety messages

WARNING: Indicates a hazardous situation which, if not avoided, may cause death or serious injury.

General Safety Warnings

The tyre is equipped with a Pirelli Cyber Tyre Sensor Node (CTSN-09) sensor (hereinafter referred to as the Sensor), a radio device equipped with a lithium battery which is neither replaceable nor rechargeable.

When using the tyre, the specified conditions of use for the tyre itself must be respected. The safety and regulatory information for the Sensor is given below.

Regulatory Information – FCC

- Sensor Name: Pirelli Cyber Tyre Sensor Node.
- Model Name CTSN-09S
- FCC ID: 2ANX7CTSN

Compliance with Part 15 of the FCC Rules

The equipment complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions.s

1. The equipment may not cause harmful interference, and
2. The equipment must accept any interference received, including interference that may cause undesired operation.

Compliance with Class B digital devices

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 according to 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:

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

FCC Caution

1. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.
2. Co-location of this transmitter with other transmitters that operate simultaneously is required to be evaluated using the FCC multi-transmitter procedures.

Radiation Exposure

This equipment complies with portable FCC radio frequency exposure limits set forth for an uncontrolled environment.

Wireless Interface

The Sensor is a radio device with a wireless interface.

The Sensor is equipped with a proprietary Radio interface which operates in the 2.4 GHz ISM band. (2.4000 – 2.4835 GHz).

Battery

WARNING

Improper use of the tyres and the Sensors can cause harm to human health and the environment.

Disassembly of the Sensor and its battery by the user is prohibited.

The lithium batteries inside the Sensors contain flammable material.

The substances contained in the battery are harmful and can hurt human health and the environment.

Improper use of lithium batteries can cause overheating, which could lead to a fire or explosion, with the risk of personal injury and/or environmental damage. To avoid such incidents during the use/handling of the batteries, ensure you observe the following precautions:

- Do not dispose of the batteries in a fire.
- Do not heat the batteries or expose them to sources of heat.
- Do not disassemble the batteries.

In the event of improper use of and/or accidental damage to the battery, which causes the contents to leak out, follow the precautions outlined below.

- Inhalation: The fumes can cause respiratory irritation; leave the area and go to a cool and well-ventilated location.
- Contact with skin: wash immediately with plenty of water and seek medical attention, particularly if any irritation persists.
- Contact with eyes: wash immediately with plenty of water for at least 15 minutes.
- Contact with mouth: rinse the mouth with plenty of water and seek medical attention.

In the event of a fault with the sensor and possible accidental damage to the battery, which causes the contents to leak out, tyre dealers are recommended to use appropriate personal protective equipment (PPE) when removing the device in order to avoid the issues outlined above.

Waste Sorting and Recycling of the Sensors

- It is the installer's responsibility to dispose of the Sensors by applicable legislation. Incorrect disposal of materials can lead to penalties under applicable legislation.
- Separating waste and recycling contributes to the preservation of natural resources and ensures the correct recovery of materials, helping protect human health and the environment.
- Sensors on worn tyres must be removed from the tyre and disposed of by applicable legislation.
- For further information on the methods and locations for disposing of used Sensors, contact Pirelli at trackadrenaline.support@pirelli.com.

Disposal requirements

The crossed-out wheellie bin symbol on the Sensors and their packaging indicates that the Sensors and the batteries contained in them must be disposed of separately, and NOT with unsorted urban waste.

Pirelli Tire LLC

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Frequently Asked Questions

• Q: Can the lithium battery in the Sensor be replaced?

A: No, the lithium battery in the Sensor is non-replaceable. Do not attempt to disassemble the Sensor or its battery.

• Q: What should I do if the battery contents leak?

A: In case of battery leakage, move to a well-ventilated area if fumes are inhaled. Wash skin with water and seek medical help if irritation persists.

Documents / Resources



[PIRELLI CTSN-09S Cyber Tyre Sensor Node \[pdf\]](#) Instruction Manual
2ANX7CTSN, CTSN-09S Cyber Tyre Sensor Node, CTSN-09S, Cyber Tyre Sensor Node, Tyre Sensor Node, Sensor Node, Node

References

- [User Manual](#)

■ Pirelli

🔍 2ANX7CTSN, CTSN-09S, CTSN-09S Cyber Tyre Sensor Node, Cyber Tyre Sensor Node, NODE, Pirelli, Sensor Node, Tyre Sensor Node

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