

WTPS

User manual

Wireless Tire Pressure Sensor

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Revision	Date	Details
01	Apr. 05 th , 2023	Simplified for clarity. Comment as per FCC 15.21 added in §7

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1. Foreword

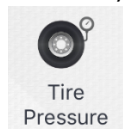
Congratulations, you are now using the most modern and convenient means to check your aircraft tire pressures! This manual will help you make the most of the WTPS.

WTPS stands for Wireless Tire Pressure Sensor.

This manual is intended for actual users of the WTPS system, once the system is installed on aircraft. Maintenance staff looking for installation and removal instructions on aircraft should refer to the WTPS installation and removal manual.

Using the WTPS requires a smartphone (or tablet, or any other compatible device – collectively called smartphone in this document) running the appropriate mobile application from your aircraft manufacturer (called App in this document). The tire pressure tool in this App is only available for Apple iOS devices at the moment. To enquire about availability of a tire pressure tool compatible with Android™ mobile devices, please liaise with your aircraft manufacturer.

Once the App is installed, enter the WTPS menu by tapping on the Tire Pressure icon:



This manual is purely about the WTPS and its interaction with the application. Issues with the smartphone or the App itself are not dealt with in this document. For any issues with the smartphone or the App, liaise with your smartphone manufacturer or Textron Aviation respectively.

Screenshots in this document come from Textron Aviation Service App version 5.9. Details may vary in subsequent versions.

2. WTPS facts

The WTPS uses **Bluetooth®** Low Energy v4.2. Your smartphone must be compatible (v4.2 or higher) and the Bluetooth® must be enabled.

The WTPS is intended for use on ground only, on a parked aircraft. It is not intended for use in flight or on a moving aircraft.

The WTPS operates between -20°C and +70°C (-4°F and +158°F). Outside this range, the WTPS does not transmit over Bluetooth® in order to preserve its battery. However the WTPS can withstand without damage temperature between -55°C and +140°C (-67°F and +284°F).

Tire servicing must be accomplished according to the aircraft and/or tire manufacturer procedures. An important message is displayed on the App at first use. The WTPS can only be used if this message is read, understood and agreed. Failure to read, understand and comply with this message may lead to unsafe aircraft operation.

The WTPS is designed for a two-year service life. It is powered by a non-rechargeable battery.

3. Applicability

This document applies to the following part number(s):

- 423-420-099-021
- 423-420-099-022

The sensor part number can be found on the sensor itself, or via the App in the Device information.



Figure 1

4. Usage

The WPTS can only be used once the WPTS has been installed on aircraft and the sensors have been configured.

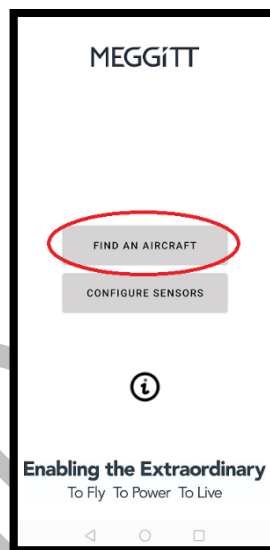
1. Activate the Bluetooth® interface on the smartphone

Note: Some smartphones require activating the localization feature for the Bluetooth® to work properly.

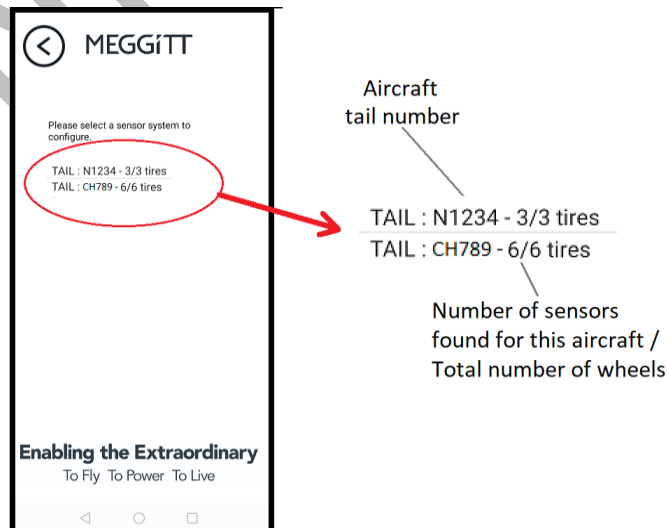
2. Make sure the sensors are within Bluetooth® range

Note: The communication range depends on the smartphone, on the environment and on the potential presence of obstacle (e.g. the fairing covering the sensor on the wheel).

3. On the Smartphone app, go to the *Find an aircraft* menu



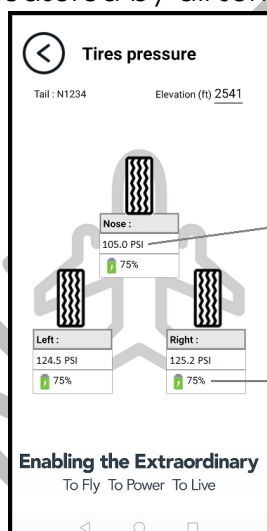
4. Select an aircraft from its tail number



5. Type in the local altitude in feet (or let the app automatically find it, if the required authorizations are granted).



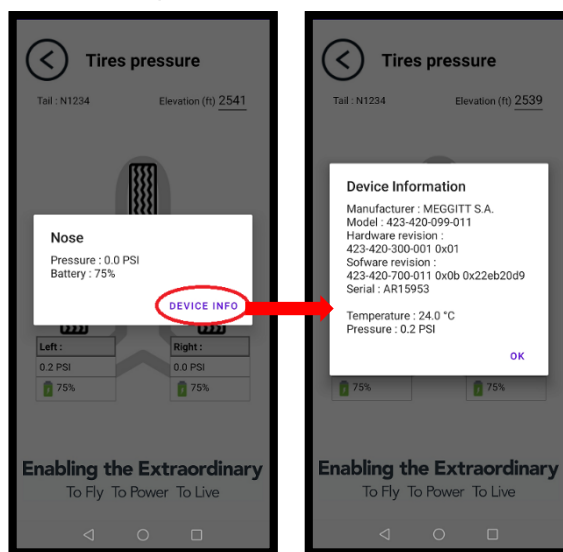
6. The pressure measured by all sensors of the selected aircraft are displayed in PSI



Relative pressure
(i.e. shows 0 PSI when measuring
atmospheric pressure)

Battery status

7. Tap on a wheel and then on *Device info* to see additional data (e.g. sensor temperature, part numbers, etc)



Note: The smartphone app provided is a beta version, for test and development purposes only. It is not fully representative of the final app provided to the end users, especially in terms of data integrity, fool proofing and user-friendliness. Some errors that do not prevent from evaluating the product may be found.

5. Sensor disposal

The WTPS sensor contains a battery and electronic circuitry. At the end of its service life, the WTPS sensor should be recycled. Battery-powered devices must be recycled or disposed of separately from conventional waste. Dispose of batteries according to your local regulations.



Figure 2

6. Contact

For any question, comment or feedback on the WTPS, please visit <https://mymeggittsupport.com> or email to customerresponse@meggitt.com.

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7. Regulatory information

This section contains information related to regulatory approvals for radio equipment.



Canada

IC: 29973-423420

HVIN: 423-420-099-022

A French version of this manual can be provided to Canadian customers on request.

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

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

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.

European Union & Switzerland

Frequency band: 2400 MHz to 2483.5 Mhz

Maximum power transmitted in this frequency band: -20.10 dBm

USA

FCC ID: 2A83B423420

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.

Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

General

Operating voltage: 3.0 V maximum

Operating current: 10 mA maximum

Operating power: 30 mW maximum

Suitable for indoor and outdoor use.

Withstands altitude up to 55.000 ft / 16.764 m.

Suitable for use in pollution degree IV (outdoor use).



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