

PRODUCT NOTICE

Physical Characteristics

- Approximate dimensions: L= 200mm. W= 95mm. D=190mm
- Approximate weight: approximately 3.1kg
- Available connections: Ethernet, USB , serial

Environment

- RoHS compliant

DISPOSAL

The MEMS EVOLUTION 4 TRANSCIEVER must not be disposed of in landfill.

At the end of its life, the MEMS EVOLUTION 4 TRANSCIEVER must be removed from the vehicle and deposited in a container dedicated to the recycling of electronic equipment that contains batteries. If users do not have access to the appropriate recycling facility, your local Michelin MEMS representative is able to provide a container dedicated to the purpose of collecting MEMS equipment.

CONTACT DETAILS

For more information or assistance, please contact the Michelin MEMS representative for your country.

Brasil, Chile & Perú	: +55 (21) 36 21 4646
USA, Canada & México	: +1 864 458 5000
Australia	: +61 3 86 71 1003
South Africa	: +27 115 790 300
Russia	: +7 495 258 09 26
China	: +86 21 22855000
Europe	: +33 4 73 32 20 00

Features, specifications are subject to change without notification.

Document version 10.1

MFP MICHELIN © 2022 All rights reserved.
Exclusive property of Manufacture Française des Pneumatiques
Michelin. Any reproduction or utilization prohibited without the
consent of Michelin.



MICHELIN® MEMS® EVOLUTION 4

IMPROVING YOUR EFFICIENCY EASIER THAN EVER BEFORE.

TRANSCIEVER

www.michelinearthmover.com

PRODUCT NOTICE

PRODUCT NAME

MEMS TRANSCEIVER A – ALLUMINIUM – Part Number CAI 068685

PRODUCT DESCRIPTION

The MEMS EVOLUTION 4 TRANSCEIVER receives, via externally mounted antennas, pressure and temperature data transmitted by the MEMS SENSORS. This information is to be forwarded to the MEMS EVOLUTION 4 SERVER, together with any messages that may require corrective action to be taken in order to maximise the service life of the tire.

PRODUCT COMPLIANCE

Model : RV5-01

FCC ID : F15-RV501

Contains FCC ID: F15-WL18DBMOD

Contains IC: 5056A-WL18DBMOD

This device complies with part 15 of the FCC Rules and with RSS-210 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.

This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body

Federal Communications Commission (FCC) Statement : 15.105(a) : This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

You are cautioned that changes or modifications not expressly approved by the part responsible for compliance could void the user's authority to operate the equipment.

"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."

Caution: Exposure to Radio Frequency Radiation

1. To comply with the Canadian RF exposure compliance requirements, this device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.
2. To comply with RSS 102 RF exposure compliance requirements, a separation distance of at least 20 cm must be maintained between the antenna of this device and all persons.

Attention: exposition au rayonnement radiofréquence

1. Pour se conformer aux exigences de conformité RF canadienne l'exposition, cet appareil et son antenne ne doivent pas être co-localisés ou fonctionnant en conjonction avec une autre antenne ou transmetteur.
2. Pour portable utilisation, cet appareil a été testé et respecte les directives sur l'exposition aux RF lorsqu'il est utilisé avec un accessoire sans métal. L'utilisation d'autres accessoires ne peut pas garantir la conformité aux directives d'exposition aux RF.



PRODUCT NOTICE

PRODUCT INFORMATION

For correct operation, the coupling torque of all SMA connectors is 0.34 - 0.57Nm. Failure to tighten to this range can result in loss of performance and/or damage to the connector during use.

PRODUCT SPECIFICATION

Performance Characteristics

- Transmission rate to MEMS server: Normally once each minute but can be configured to suit certain needs.
- Barometer measurement precision: $\pm 4\text{kPa}$
- Wi-Fi 802.11 a/b/g/n

Electrical Performance

- Supply voltage: From 20 to 30VDC
- Over voltage: Up to 80VDC continuous
- Supply current: 100mA battery charged, 500mA battery in charge
- Batteries:
 - 1 x Li-metal coin cell (BR2032)
 - Ni-metal hydride rechargeable 7.2V, 4200mAh
- Typical battery charging time: 6 hours
- Typical rechargeable battery performance: 6 hours in normal operation

Operating Conditions

- Operating temperature: -20°C to $+60^{\circ}\text{C}$, -4°F to $+140^{\circ}\text{F}$
- Sealing: IP65
- Humidity: 95% non condensing
- Drop specifications: 0.5m drop to concrete surface

Storage Conditions

- Long term storage temperature: 5 to $+20^{\circ}\text{C}$, $+41^{\circ}\text{F}$ to $+68^{\circ}\text{F}$
- Recharge internal battery to at least 80% of capacity every 12 months

