



## MICHELIN RV5-01 Transceiver User Manual

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RV5-01 Transceiver  
User Manual



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## 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 TRANSCEIVER must not be disposed of in landfill.

At the end of its life, the MEMS EVOLUTION 4 TRANSCEIVER 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 & Peru	: +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

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## 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:  $\pm 4$ 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:
  - o 1 x Li-metal coin cell (BR2032)
  - o 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°C, -4°F to +140°F
- Sealing: IP65
- Humidity: 95% non condensing
- Drop specifications: 0.5m drop to concrete surface

## **Storage Conditions**

- Long term storage temperature: 5 to +20°C, +41°F to +68°F
- Recharge internal battery to at least 80% of capacity every 12 months

## **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 : FI5-RV501

Contains FCC ID: FI5-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

## **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.



Product complies with EU requirements



Product complies with ACMA requirements

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



## Documents / Resources



**MICHELIN RV5-01 Transceiver** [pdf] User Manual

WL18DBMOD, FI5-WL18DBMOD, FI5WL18DBMOD, RV5-01 Transceiver, RV5-01, Transceiver