



MEMS EVOLUTION2 SENSOR PRODUCT NOTICE



Product name	CAI
MEMS EVOLUTION2 SENSOR	875103

PRODUCT DESCRIPTION

The MEMS EVOLUTION2 SENSOR is a battery powered air pressure and air temperature sensor designed to operate inside tubeless earthmover tires. The sensor is secured to the inside of the tire using a special mounting patch. The sensor measures the pressure and temperature inside the tire and sends this information, via a radio transmitter, at approximately 1 minute intervals to a MEMS EVOLUTION2 TRANSCEIVER unit which is usually located in the driver's cabin.

PRODUCT CERTIFICATION

Model: RV1.15
FCC ID: F15-RV1-15E
IC: 5056A-RV115

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.

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

French translation required for IC in final manual.

PRODUCT SEPECIFICATION

Performance Characteristics

- Normal transmission period: 60 seconds \pm 10 seconds
- Fast transmission period: 16 seconds
- Tire compatibility: 49" to 63" earthmover tubeless tires
- TX frequency: 433.92MHz ISM band

Physical Characteristics

- Dimensions: L = 9.9cm, W = 5.3cm, D = 5cm
- Weight: 102g

Operating / Storage Conditions

- Operating temperature range: -40°C to +125°C
- Operating Pressure range: 100 kPa to 1400 kPa
- Storage temperature: 0 to +50°C

Electrical Performance

- Service life in storage: 2 years (0 to +50°C)
- Service life in use: nominally 2 years

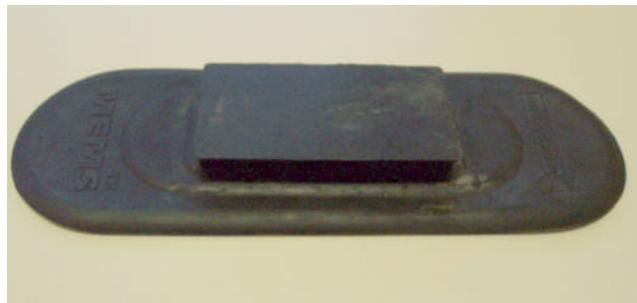
Environment

- Non RoHS compliant

INSTALLATION

Patch Installation

For a **Standard Tire** it is necessary to glue a patch to the inside of the tire, onto which the sensor will be affixed.



Patch

Detailed installation instructions for gluing the patch are provided with the patches themselves.

A **Sensor Ready Tire (SRT)** has a 'belt patch' incorporated into it as part of the manufacturing process and therefore does not require the above procedure.



"Belt patch"

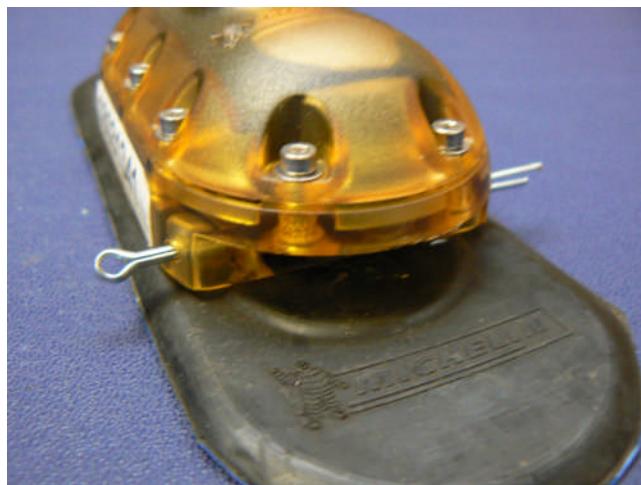
Sensor Installation

Record the sensor number (*shown on each of four white labels affixed to the sensor*) along with the brand number of the tire into which you are about to install the sensor

For a **Standard Tire** slide the SENSOR onto the dovetail of the patch.



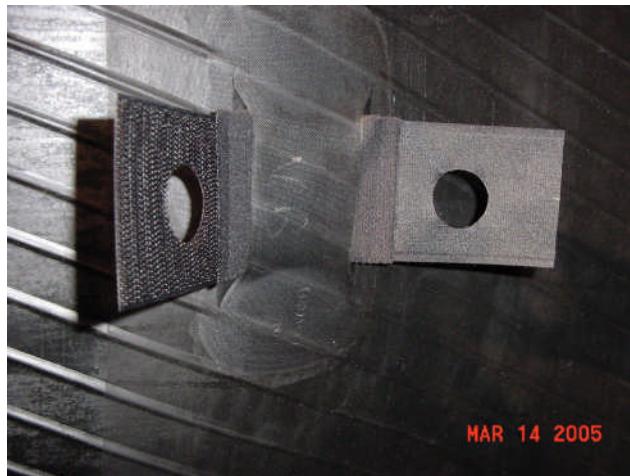
Insert the supplied metal split-pin to lock the SENSOR in place.



IMPORTANT

It is **highly recommended** to maintain in a notebook a list of the sensor numbers and the brand numbers of the tires into which each sensor has been installed. This information is critical to the operation of MEMS.

For a **Sensor Ready Tire (SRT)** insert the Velcro Strap supplied with the sensor.



Place the sensor in between the ends of the strap and wrap the ends around the sensor, so that the hooks and loops of the Velcro Strap stick together.



IMPORTANT

It is **highly recommended** to maintain in a notebook a list of the sensor numbers and the brand numbers of the tires into which each sensor has been installed. This information is critical to the operation of MEMS.

Disposal

When the sensor reaches the end of its service life, please dispose of it in accordance with the appropriate regulations in force for your country.

Contact Details

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

Features, specifications are subject to change without notification.
Document version 0.1

*MFP MICHELIN © 2011 All rights reserved.
Exclusive property of Manufacture Française des Pneumatiques Michelin.
Any reproduction or utilization prohibited without the consent of Michelin.*