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Continental CMKG2 Body Controller Module User Manual

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Continental CMKG2 Body Controller Module

Product Information

The CMKG2 (Body Controller Module) is a component of a driving authorization system for a car. It is part of a system that includes the vehicle key, the UHF antenna module, and the UWB antenna module (in some markets). These components exchange encrypted data to allow car access, start the engine, and locate the key. The vehicle key features three buttons for car access. Pressing the dedicated button sends RF authorization data to the control unit, which opens the doors. The second button locks the doors, and the third button opens the trunk deck. Additionally, there is an optional PANIC button for the North American market.

In addition to using the buttons, car access can also be granted by touching the door handles. The vehicle key is activated by the LF antennas' magnetic field (21.85 kHz), controlled by the CMKG2. The key sends encrypted RF data (315 or 433 MHz, depending on frequency variant, and 7 GHz UWB for some markets) for authentication. The CMKG2 receives this data from external antenna modules and unlocks the vehicle doors. If the battery is low, car access can be achieved using an integrated mechanical emergency key. The vehicle key is placed in a dedicated slot inside the center console, where it is wirelessly powered by a magnetic field (also 21.85 kHz).

Please note that this device is not available for general purchase and can only be installed by trained specialized personnel from the car manufacturer.

- **Continental Model:** CMKG2
- **Product:** Body Control Module
- **FCC:** KR5CMKG2
- **IC:** 7812D-CMKG2

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 harmful interference, and (2) this device must accept interference received, including interference that may cause undesired operation of the device.

Product Usage Instructions

To use the CMKG2 and the driving authorization system:

1. Ensure that the vehicle key is within range of the LF antennas.
2. Press the dedicated button on the vehicle key to send RF authorization data and open the doors.
3. Press the second button on the vehicle key to lock the doors.
4. Press the third button on the vehicle key to open the trunk deck.
5. In case of low battery, use the integrated mechanical emergency key by placing it in the dedicated slot inside the center console.
6. For car access by touching the door handles, ensure that the LF antennas' magnetic field is activated.
7. For additional features or specific market variants, refer to the car manufacturer's instructions.

Please follow all safety guidelines and refer to the car manufacturer's documentation for further information on using the CMKG2 and the driving authorization system.

Operation Instruction

- The CMKG2 (body controller module) is a component of a driving authorisation system of a car which further comprises of the car's vehicle key, the UHF antenna module and (for some markets) the UWB antenna module.
- The components exchange encrypted data for car access, to start the engine and to locate the key. The vehicle key contains three buttons for car access. By pressing the dedicated button the vehicle key sends over RF

authorization data to the control unit to open the doors. A 2nd button releases data to lock the doors. A third button is dedicated to open the trunk deck. An additional "PANIC" button is implemented optional for the North American market.

- Moreover car access is also released after touching the door handles. The key is waken by the magnetic field (21.85 kHz) of the LF antennas, driven by the CMKG2. The vehicle key sends over RF (315 or 433 MHz, depending on frequency variant, as well as 7 GHz UWB for some markets) encrypted data in return for authentication. The CMKG2 receives this RF data from external antenna modules and unlocks the vehicle doors.

- In case the battery is low, car access is possible by means of an integrated mechanic emergency key. The vehicle key is then to be placed into a dedicated slot inside the centre console to be powered wireless by means of a magnetic field (also 21.85 kHz).

- This device is not freely available on the market and is installed only by trained specialized personnel from the car manufacturer.

FCC STATEMENT

Continental

- **Model:** CMKG2
- **Product:** Body Control Module
- **FCC:** KR5CMKG2
- **IC:** 7812D-CMKG2

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 interference received, including interference that may cause undesired operation. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

No changes shall be made to the equipment without the manufacturer's permission as this may void the user's authority to operate the equipment.

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

1. this device may not cause harmful interference, and
2. this device must accept interference received, including interference that may cause undesired operation of the device.

Documents / Resources

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KR5CMKG2, 7812D-CMKG2, CMKG2, Body Controller Module, CMKG2 Body Controller Module, Controller Module, Module