

CMKG2 User manual

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.

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). 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.

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.