

## AK1A User Manual

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The **AK1A** (vehicle key) is a component of a driving authorisation system of a car which further comprises of the body controller module **BCMevo**.

The components exchange encrypted data for car access, to start the engine and to locate the key. The **AK1A** contains three buttons for car access. By pressing the dedicated button the **AK1A** sends over RF authorization data to the control unit to open the doors. The 2<sup>nd</sup> 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 US market. If the PANIC button is pushed twice or held down for two seconds, the car alarm will start and can be stopped by pressing this button again.

Moreover car access is also released after touching the door handles. The key is waken by the magnetic field of the LF antennas, driven by the **BCMevo**. The **AK1A** sends over RF encrypted data in return for authentication.

In case the battery is low car access is possible by means of an integrated mechanic emergency key. The **AK1A** is then to be placed into a dedicated slot inside the centre console to be powered wireless by means of a magnetic field.

### Open Button

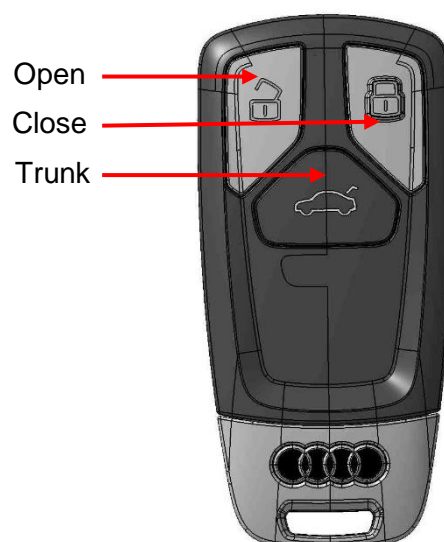
- To unlock the vehicles doors when the button is pressed short.
- In case the button is pressed long, the windows will open additionally.

### Close Button

- Locks the vehicles doors when the button is pressed short.
- When the button is pressed, long the windows will close additionally.

### Trunk Button

- To unlock and open the vehicles trunk lid, push the button twice.



## **Radio equipment authorization to FCC in USA for AK1A**

### **NOTICE:**

The enclosed hardware 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 any interference received including interference that may cause undesired operation.

Changes or modifications made to this equipment not expressly approved by (manufacturer name) may void the FCC authorization to operate this equipment.

## **Radio equipment authorization to RSS-210 in Canada for AK1A**

### **NOTICE:**

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique 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;
- (2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This Class [B] digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe [B] est conforme à la norme NMB-003 du Canada.