



**OWNER'S MANUAL**  
**SmartControl Digital RF Kit system**

**MMCARFK2002**



This system must be installed by a professional.

**NOTICE**

The manufacturer will accept no responsibility for any electrical damage resulting from improper installation of this product, be that either damage to the vehicle itself or to the installed device. This device must be installed by a certified technician. Please review the Installation Guide carefully before beginning any work.

# WELCOME TO SMARTCONTROLS

Congratulations on the purchase of your new system! Please take a moment to review the following guide to help you understand and use your system to its full potential.

## THE SYSTEM

This system has been designed so you can access the features from your remote starter, security and convenience unit using this simple 2-way 4 button remote.

When connected by Bluetooth®, the application will turn your smartphone into a virtual remote control that will centralize all of your vehicle information. Your smartphone will give you full access to all the functions of your unit with multiple dedicated buttons.

The application will display the current status of your door locks\*, unauthorized intrusion or alarm condition\*, the vehicle battery voltage, remote start runtime and shutdowns, etc...

The communication technology between the remote and the antenna uses the same RF technology as commercial LPWAN systems used to communicate with devices such as fire detectors and gas monitoring meters. This advanced technology will give you exceptional performance and stability on distances of up to 2.4Km (1.5 miles).

\*Some extra connections might be required by your installer in order to control certain functions on your vehicle.

## SYSTEM OVERVIEW

Download the App from the  
AppStore or Google Play  
Search for : SmartControls



ANTENNA



REMOTE  
CONTROL



### TECHNICAL DATA

Operating frequency	911 MHz
Max Operating Range (Remote - Antenna)	Up to 2.4km (1.5 miles) unobstructed
Max Operating Range (BT to Smartphone)	15 meters (50 feet)
Power source	Antenna - 12 volts
	Remote - Rechargeable li-ion 3.6 volts

Your handheld remote can be used at anytime without the use of the smartphone app in order to control your vehicle. Please take a moment to get acquainted with the following functions below.



## LOCK & ARM

Press and Release the LOCK command button.

This will secure your vehicle by locking the doors and arming the factory alarm.

## LOCK CONFIRMATION

1x short beep  
1x LED blink



## UNLOCK & DISARM

Press and Release the UNLOCK command button.

This will give access to your vehicle by unlocking the doors and disarming the factory alarm.

## UNLOCK CONFIRMATION

2x short beep  
2x LED blink



## START ENGINE

Press and Release the START command button. A quick beep is heard.

## START CONFIRMATION

2x short beep  
2x LED blink

## SUCCESSFUL ENGINE START

3x short beep  
3x LED blink

## ENGINE RUNNING

1x LED blink every 5 seconds

## ENGINE START FAIL

2x long beep  
2x long LED blink



## EXTENDED RUNTIME / PITSTOP\*

While engine is running under remote start, Press and Release the START command button. A quick beep is heard.

This will reset the remote starter runtime to the preset runtime value.

## SUCCESSFUL EXTENDED RUNTIME

3x short beep  
3x LED blink

\* Pitstop mode will allow you to take the keys out of the ignition and keep the engine running using the remote starter.



## STOP ENGINE

Press and Hold the command button for 5 seconds until a long beep is heard, then release.

## STOP CONFIRMATION

2x long beep  
2x LED blink

## SUCCESSFUL ENGINE STOP

2x long beep  
2x long LED



## COMMUNICATION ERROR

Any command sent by pressing the remote control command button which is not received by the antenna.

## NO RESPONSE

2x quick Low/High beeps



## LOW BATTERY

After any command sent by pressing the remote control command button

## LOW BATTERY WARNING

6x quick beeps

## REMOTE CONTROL BATTERY

Your handheld remote control contains a long-lasting Li-Ion battery that can be recharged with a micro-USB cable (supplied). It is recommended that the battery be fully charged before the first use for maximum efficiency and range. During normal operation, the battery will last for approximately 1 month before recharging is required.

### LOW BATTERY INDICATOR

The remote control provides an audible warning to advise you that the battery needs to be changed. When 6 short beeps are heard after each command is received, this indicates that the battery is depleted.



### REMOTE CONTROL MAINTENANCE

This remote control will not require any maintenance other than changing the battery. The remote control is not water resistant nor waterproof. **Do not** expose to rain, mud or snow. Never immerse the remote control in water.

### CHANGING THE BATTERY

1. Using your nail or a small screw driver, split the plastic casing in half to reveal the interior content of the remote.
2. Slide out the coin cell battery and replace it with an exact same model. Model is CR2450.
3. Once replaced, simply clip back the two plastic half of the casing and try the remote to ensure all functions are working properly.

## ANTENNA FUNCTIONS

The antenna can learn a maximum of 4 remote controls. It is equipped with 2 visual status indicators, a red and a white LED. The red LED is used for programming, while the white LED is for status and diagnostics. Please refer to your remote starter/security user guide for flash diagnostics.

### Antenna Installation Location

The antenna is designed to be installed in a dry location, inside the passenger vehicle compartment. For optimum performances, the best location is typically in the windshield where it will not obstruct your view while driving. It should also be kept away from any metal surface such as the A-pillar, rearview mirror post, roof liner, transponder or electronic component. For instance, it's installation against the A-pillar can cut as much as 50% of the effective range.

### Pairing Label

On the antenna, you will find a scannable QR CODE label that is required to pair your system to your smartphone. **Please do not remove and/or discard this label as it will be required to pair any smartphones to your system now or in the future.**

### Temperature sensor

A temperature sensor is present inside the antenna. It will read the actual temperature inside the antenna case. Note that the temperature reading does not reflect the actual ambient temperature inside the vehicle, especially if it is in direct sunlight or ice is present on the windshield.

### Antenna Maintenance

The antenna does not require any maintenance and does not contain any batteries. It is not water resistant or dust proof and must be kept in a dry location. Be careful not to damage or disconnect the cable or spray cleaner directly on the antenna.


### Bluetooth® Low Energy

The remote control and antenna are both using Bluetooth® to link to the smartphone. Once connected to a smartphone, you will have full access to all the functions and commands available from your remote starter, security and convenience system. The antenna being the center of operation of the system, once paired, will provide the pairing information for the remote control(s).

### Bluetooth® maximum range

The Bluetooth® connecting/operating range to a smartphone is typically around 50 feet. Once paired, your smartphone can connect to either the remote control or the antenna if you are within this distance.

### Mobile Application

Download the Mobile app on your Android® or Apple® device through the Google Play® Store or App store. Create an account and login using your credentials. In "My Garage" section, press on the  sign at the bottom right of the screen to add a system and follow the pairing instructions.

# MANAGING YOUR DEVICES

## Connection to Remote Control

These type of remote control cannot connect by Bluetooth® with your smartphone. Although your smartphone can still be used to connect to the antenna via Bluetooth®. See Connection to the Antenna section below.

## Connection to the Antenna

The smartphone can connect directly to the antenna of the vehicle without having a transmitter nearby. The effective range is limited by the Bluetooth® device (50 feet).

## Smartphone Pairing

Up to 4 smartphones can be paired to the system at the same time. The smartphone pairing is based on a First-In-First-Out method. Once 4 smartphones have been paired, an additional pairing of a smartphone will bump out the oldest one.

## Delete Pairing

You can delete all of the smartphone pairings memorized in the antenna. Follow the procedure below to erase all smartphone pairing.

### Antenna Procedure

1. Press and Release the side button 5 times, holding the side button on the 5th press until the RED LED lights constantly.
2. While RED LED is lit, Release side button, then press and hold again the side button until the RED LED blinks 3 times. Release the button.
3. All Smartphone pairing will then be erased from the antenna.

NOTE: this operation will not erase the remote control programming to the antenna and can still be use to operate your remote starter, security and convenience system.

## To check if an Antenna is actively connected via Bluetooth® with a Smartphone as **ONLY One (1) smartphone can be connected at once.**

Press and Hold the side button

- Within 3 seconds, the WHITE LED will blink once if connected to a smartphone.
- Within 3 seconds, the RED LED will blink once if **NOT** connected to a smartphone.

# smartcontrol

lightwave<sup>™</sup> connected  
TECHNOLOGY vehicle  
solutions

400 Wright - St-Laurent, Quebec, H4N1M6 - CANADA

© 2021 Lightwave Technology Inc. All rights reserved.