# Smart Phone APP WIFI Controller RF Remote Control Kit For Linear actuators

**Package Include:**
1 x WiFi to RF Converter (Including power adapter)
1 x Receiver: S2PF-DC12 / S2PF-DC24
1 x Transmitter: CV-6-2
1 x User manual

**Product Introduction:**
This intelligent control kit includes a WiFi-RF converter, a receiver, and a remote control. The receiver can be used to connect linear actuator extending or retracting movement. The user can use the RF transmitter to control the linear actuator connected to the RF receiver, or use the smart phone to control the linear actuator connected to the receiver anytime and anywhere.

**Product Application:**
1. The user can use this system to control various devices with linear actuators through Smartphone and remote by the Internet and RF wireless signal, mainly used for doors, windows, cars, lifting platforms, skylight, massage couches, electric beds, medical chairs and electric devices. It can push, pull, lift and descend other devices.
2. This product also has superior timing and delay functions which can achieve a variety of complex timing control, delay control and automatic cycle control. Therefore, it has richer and smarter control functions than traditional remote controls.

**Product Feature:**
Wireless control, easy to install.
Connect to the Internet via the WIFI signal of the wireless router.
Via smartphone app to control, no distance limit.
It offers APP for Android or iOS, and APP is free to use.
The Android version of the app supports a variety of Android phones or tablets.
The iOS version of the app supports a variety of iPhone, iPad and iPod Touch.
The APP supports English, French, German, Spanish, Russian and other languages.
Limit control terminals: You can use limit switches or sensors to control the linear actuator.
Wired control terminals: You can use manual switches control the linear actuator.
Timing function: You can set the device to run automatically at different times of a day.
With the sharing function, you can share this device with other mobile phones for common operation.

**Working Principle:**
The linear actuator is connected to the RF receiver, and you can directly use the RF transmitter to control the linear actuator.
The WiFi to RF converter is connected to the Internet via the WiFi signal of the wireless router. It can learn the wireless signal of RF transmitter, and emit the same wireless signal to control the RF receiver.
Therefore you can use the Smartphone APP to operate the WiFi to RF converter, then the WiFi to RF converter emit wireless signal to control the linear actuator by RF receiver. So Smartphone can be transformed into a universal remote which is enable to remote control various devices at anytime and anywhere.

**Use Process:**
1. Use Smartphone to download the APP, and register an account and log in.
2. Connect the WiFi to RF converter to a wireless router and operate the APP to learn the transmitter.
3. Connect the linear actuator to the receiver, then you can control the linear actuator by the transmitter from any place within a reliable distance.
4. You also can use Smartphone APP to control the linear actuator from any place without distance limit.

**WiFi to RF Converter Parameters:**
Dimension: 62mm x 62mm x 20mm
Operating voltage: 5V/1A (powered by Micro USB interface)
WiFi operating frequency: 2.4GHz
RF system working distance: 50 to 100 meters (in an open environment)
Working temperature: -40°C~85°C
It can learn up to 4 remote controls and can control up to 16 switches.
Supports the frequency of the learned RF remote controls：433MHz
Most fixed code and learning code remote controls are supported, such as the remote control chip models PT2260, PT2262, PT2264, EV1527 etc.
Dynamic codes (rolling codes) and encrypted remote controls are not supported.
Remote controls of infrared signal such as the remote controls of TV and air-conditioning are not supported.
It can be remotely controlled by mobile phone APP in any place where there is a mobile phone signal.
The Android version of the APP supports a variety of mobile phones or tablet devices of Android systems.
The iOS version of the APP supports a variety of Apple phones or Apple devices such as the iPhone, iPad, and iPod Touch.
APP supports English, French, German, Spanish, Russian and other languages.
Multiple working modes: self-locking, interlocking, delay, ordinary timing, cycle timing and custom scenes.

**Receiver Parameters:**
Model No: S2PF-DC12 / S2PF-DC24
Control Mode: Latched or Momentary
Coding Type: Fixed code or learning code
Coding Setting: By learning

Power Supply (Operating Voltage): DC12V±1V (S2PF-DC12), DC24V±1V (S2PF-DC24)
Output: DC12V (S2PF-DC12), DC24V (S2PF-DC24)
Working Frequency: 433MHz
Channel: 2 CH, can work with 2 linear actuators
Static Current: ≤6mA
Maximum Working Current: 30A / each channel, so linear actuator's maximum starting current can not exceed 30A.
PCB Size: 170mm x 109mm x 25mm
Case Size: 200mm x 120mm x 53mm

**Transmitter Parameters:**
Model No.: CV-6-2
Channel/Button: 6
Button Symbol: Two▲, Two▼, Two■
Operating Voltage: 12V (1 x 23A -12V battery, can be used for 12 months)
Operating Current: 15mA
Operating Frequency: 433 MHz
Encoding Chip: PT2262/PT2264
Transmitting Distance: 500m / 1500ft (theoretically)
If you stretches the telescopic antenna, it can have a further working range, which is twice as much as it used to be.
Modulation Mode: ASK
Operating Temperature: -20 ° C to +70 ° C
Unit Size: 110mm x 50mm x 18mm

**Operation:**
1) Controlling the linear actuator by RF transmitter (CV-6-2):
Press button ▲ on the left: Linear actuator 1 extends.
Press button ▼ on the left: Linear actuator 1 retracts.
Press button ■ on the left: Linear actuator 1 stops.
Press button ▲ on the right: Linear actuator 2 extends.
Press button ▼ on the right: Linear actuator 2 retracts.
Press button ■ on the right: Linear actuator 2 stops.

2) Controlling the linear actuator by smart phone:
Press button "UP1" on the smart phone APP: Linear actuator 1 extends.
Press button "DOWN 1" on the smart phone APP: Linear actuator 1 retracts.
Press button "STOP1" on the smart phone APP: Linear actuator 1 stops.
Press button "UP 2" on the smart phone APP: Linear actuator 2 extends.
Press button "DOWN 2" on the smart phone APP: Linear actuator 2 retracts.
Press button "STOP 2" on the smart phone APP: Linear actuator 2 stops.

**Delay Function:**
The delay time can be accurate to the minutes, the shortest delay time is 1 minute, and the longest delay time is 24 hours. Up to 8 delay times can be set. The device will automatically turn on or off when the set time reached.

**Timing Function:**
Users can set the device to run automatically at different times during the day. You can set up to 4 groups of timing, each set of timing includes a time to turn on the device and a time to turn off the device.

**Cycle Timing Function:**
User can set a run time and a cycle time to set the device to run repeatedly and automatically. For example, set the device to start once every hour, each time runs for 20 minutes, and the cycle is repeated automatically.