Mains powered receiver & keyfob upgrade kit type AP433RX2 Installation Instructions

AP433RX2 receiver & AP433TX4 keyfob

Receiver Positioning
Position the AP433RX2 receiver unit within reach of a mains power point and secure it using the self-adhesive pads supplied or by two screws if preferred.

Connection to a Garage Door Operator (see table below)
The two core flex should be connected to the low voltage wall control switch impulse connections of your electric door or gate operator, this may be at either the wall switch or the actual garage door/gate operator, polarity is of no importance so the wires can be connected either way round.

Individual Control of Two Doors
The AP433RX2 receiver can be used to control a second garage door independently from a separate button on the keyfob transmitter. The additional electric operator should be wired to terminals marked 'CH2' inside the AP433RX2 using two core bell wire.

Typical Applications
Suitable for use with any remote controlled garage door or gate operator with provision for an 'open/close' pushbutton control switch (normally open impulse contacts)

Digital Code System
The keyfob transmitters communicate with the AP433RX2 receiver via a secure digital 433Mhz radio transmission. The receiver can learn & memorise the unique security code signature of up to 500 keyfob transmitters.

Transmitter Compatibility
The following 'fixed code' & 'rolling code' 433Mhz transmitter types may be used with this AP433RX2 receiver: Amourelle AP433TX4, Aprimatic TR series, BFT MITT0 series, CAME TOP43 series, Fadini Jubi series, Gibidi DTR & AU0 series, Seav Motorline 433Mhz series, Seip SKR series, Sentry SEN-H-T1 & SEN-H-T3

AP433RX2 Technical Specifications
Operating Frequency: 433.92MHz
Memory Capacity: 500 transmitters
Output via volt free relay contacts
Relay Rating: 1A @ 50V AC or DC
Physical Size: 95mm x 47mm x 43mm
Operating Range: 50 – 100 Mtrs

Power Requirement (via mains adaptor supplied)
Operating Voltage Range: 100 - 240 Volts
via supplied 13A mains plug top AC adaptor
or optional 2 pin Euro type C plug top AC adaptor
(receiver unit may be powered direct from 12v or 24v DC if preferred)

One Year Warrantee

Range - 50 – 100 Mtrs
433Mhz MPT 1340 UK approved frequency

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APL Amourelle Products Limited
Established 1988

Electrical connections for use with popular UK garage door operators

Make of door operator	Connect the two core flex from the AP433RX2 receiver unit to your door opener unit as follows:
Bosch models: Profi-Lift, GTF-27L, c600c & c700c	Connect the pair of wires from the AP433RX2 receiver unit to the push-button terminals on the small grey 4 way terminal block (if no push-button switch is installed these terminals will be empty) for further details email us
Cardale Autoglide canopy door operator	Connect the pair of wires from the AP433RX2 receiver to the low voltage wall mounted pushbutton switch connections. On the Autoglide MK111 this will be the pale green two pin plug beside the black 3 pin mains input plug on the underside of the motor housing. For further details & photo refer to our website.
Chamberlain (including AutoDor, Liftmaster, MotorLift & Wickes brands)	The pair of wires from the AP433RX2 receiver unit should be connected to the low voltage wall pushbutton switch connections labelled '1' (red) and '2' (white) on your Chamberlain garage door operator . For further details & photo refer to our website.
Dura-Lift 4500	Connect the pair of wires from the AP433RX2 receiver to terminals marked 'SK1' & 'SK2' inside the grey wall control panel. (for further details & photo refer to our website)
Hormann GTD50 & GTO 90	Connect the pair of wires from the AP433RX2 receiver to the far right pair of terminals on the four- way terminal block on the side of your GTD50 or GTD90 door operator. For further details & photo email us.
Merlin 230T & 430R	Connect the pair of wires from the AP433RX2 receiver to the low voltage wall mounted pushbutton switch connections on your Merlin garage door operator. These terminals are normally identified as: 'GND' and 'PB'

Further information can be found on our website: www.garage-door-remotes.co.uk

Remote control receiver & keyfob upgrade kit type AP433RX2 Programming Procedure

Keyfob Transmitter Programming
Your key-fob transmitters(s) will be pre-programmed to your AP433RX2 receiver unit ready for use with the buttons assigned as follows:
button 1 assigned to Channel 1
button 2 assigned to Channel 2

AP433TX4
button assignment

If any further transmitters are added these will require programming to the receiver by one of the following methods:

(A) Remote Programming Method
(requires an existing pre-programmed keyfob)
1. Take a transmitter that has already been programmed to the AP433RX2 receiver and press & hold the active button and release after 10 seconds.
2. Press the transmitter button you would like to assign to the receiver.
3. The receiver should now respond each time you press the transmitter button you've just assigned.

(B) Alternative Programming Method (use this method if you don't have an existing pre-programmed keyfob)

Open the receiver cover and locate the red '**SEL**' button inside
1. Briefly press the '**SEL**' button once and release, the red **CH1** LED on the receiver will flash red to indicate that the AP433RX2 receiver is ready to learn the transmitter code.
2. Whilst the CH1 LED is flashing, press the transmitter button you would like to assign to the receiver and the red LED will stop flashing.
3. The receiver should now respond each time you press the button you've just assigned.

Note: If you are connecting the AP433RX2 to two doors press the 'SEL' button twice to programme channel 2 for the second door, the **CH2 LED** will start flashing, then follow steps 2 & 3 above to assign a separate transmitter button to the other door.

Repeat the above procedure to assign additional keyfob transmitters to the AP433RX2 receiver. (multiple buttons on each keyfob may be assigned if desired)

Clearing the receiver memory
(necessary if a key-fob has been lost or stolen)

This will erase <u>all</u> previously stored keyfobs from the receiver memory
1. Press and hold the '**SEL**' button on the receiver unit for five seconds.
2. After 5 seconds both red LED's will flash 3 times to confirm that the receiver memory has been cleared.
3. Release the 'SEL' button. You may confirm that all the previously stored keyfobs have been deleted by pressing the transmitter buttons previously used to operate the door/gate. There should be no response.
Follow programming method (B) above to re-learn your keyfobs

Transmitter Battery Replacement (AP433TX4 keyfob)
When the AP433TX4 keyfob battery is low the red LED will flash rapidly when a button is pressed. Remove the three screws from rear of the keyfob and remove the casing to reveal a 12 volt battery type GP27A (or LR27A)

Troubleshooting Guide
If your system is not working properly please perform the following troubleshooting checks:

1. Does the red LED on the AP433TX4 transmitter illuminate when a button is pressed?
a. Solid red LED = battery OK, proceed to step 2.
b. Rapid flashing LED = battery requires replacement.
c. No LED, try a new battery and make sure that it is installed correctly. If the LED fails to illuminate after changing the battery replace the transmitter.

2. Open the AP433RX2 receiver cover and check that the two red LED's are illuminated inside the receiver unit. If not, ensure that the receiver is connected to a power source.

⚠ **The transmitter must be programmed to the receiver before proceeding with the following troubleshooting steps.**
(see programming procedure opposite)

3. When the transmitter button is pressed, can a 'click' sound be heard from the AP433RX2 receiver unit?
• If yes, the transmitter and receiver are working properly but there is another issue, proceed to step 5.
• If no, the receiver is not recognising a signal from the transmitter.

4. If the receiver is not responding to a signal from the transmitter consider the following:

⚠ Door operator motors and controls may cause radio frequency interference (RFI) that could impair the performance of a radio control device. Materials such as metal, electrical cables, or other electronic devices may affect the signal. For best results, locate the receiver away from the motor.
• Try holding the transmitter near the receiver and activate it. If the receiver responds to the signal try moving the receiver to a new location away from metal items & other wires etc.
• Try activating the receiver with a different transmitter. If the receiver responds to a different transmitter, there is a possibility that the original transmitter has a problem. If this occurs, follow programming procedure (b) to re-learn the suspect transmitter to the receiver unit and try replacing the battery
• Do not cut or lengthen the antenna wire.
• If the receiver is not responding to the signal from any transmitter, regardless of distance, it is possible that the receiver may be faulty and require replacement, in which case contact Amourelle Products Ltd for assistance.

5. If the receiver and transmitter are functioning correctly but not activating the door or gate, ensure that the output wires from the receiver are connected properly to the door control circuit and check the operation of the motor etc. from the wired-in wall mounted pushbutton switch, if fitted.
(if no pushbutton switch is installed you'll need to locate the low voltage wall control pushbutton switch terminals and briefly short the terminals together with a metal object, this should start the motor and operate to door) If you are unable to locate the low voltage wall control pushbutton switch terminals, please refer to the owners manual supplied with your electric door operator.

Note: Amourelle Products Limited reserves the right to make any alterations deemed appropriate for the technical improvement of the product at any time, whilst leaving its essential features unchanged.

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