



# 2-Relay Wireless Receiver SEL2641R433-IP

## Instruction Manual



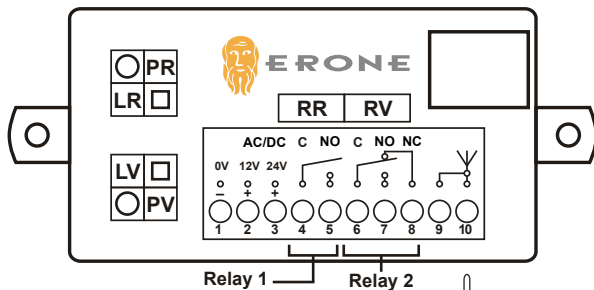
### RECEIVER INTRODUCTION

The 2-relay stand-alone wireless receiver SEL2641R433-IP is a superheterodyne single conversion receiver with integrated rolling-code decoding. The receiver can control devices like: parking gates, garage doors, multi-bay service centers, lighting, etc.

### SPECIFICATIONS

<b>Memorization:</b>	Up to 85 transmitter keys. Self-learning and erasing of the transmitter code without accessing to the receiver board
<b>Outputs:</b>	2 (1NO, 1NO or NC) Pulse, latched or timed (from 1 sec. to 10 hours)
<b>Operating frequency:</b>	433 MHz
<b>Power supply :</b>	12 or 24 Vac/dc
<b>Current consumption:</b>	25 mA (relay activated: 55 mA)
<b>Operating temperature:</b>	-20 to +70 °C
<b>Dimensions:</b>	105 x 45 x 28 mm
<b>Weight:</b>	65 g

### TERMINAL CONNECTIONS



- LR: Red LED (RR: Relay 1)
- LV: Green LED (RV: Relay 2)
- PR: Push button for relay 1
- PV: Push button for relay 2
- 1: 0V (GND)
- 2: 12 Vac/dc power supply
- 3: 24 Vac/dc power supply
- 4: Common relay 1 (RR)
- 5: N.O. relay 1 (RR)
- 6: Common relay 2 (RV)
- 7: N.O. relay 2 (RV)
- 8: N.C. relay 2(RV)
- 9: Antenna Shield (used for SEA433 tuned antenna)
- 10: Antenna Core

Supplied Antenna

### WARRANTY

The warranty period for this product is 24 months, beginning from the manufacturer date. During this period, if the product does not work correctly, due to a defective component, the product will be repaired or substituted at our discretion. The guarantee does not cover the plastic container integrity. After-sale service is supplied at the factory.

### TRANSMITTER MEMORIZATION

Transmitter keys can be memorized in 2 different ways:

- a) Locally, at the receiver, using PR or PV push-buttons.
- b) Remotely, using transmitter keys.

#### a) Locally at the receiver

To activate Relay 1 (RR)

- 1) Press PR until LR LED turns ON, then release PR
- 2) Within 2 sec. press the key of the transmitter you want to memorize. LR LED will flash and relay 1 (RR) will activate for a while.
- 3) Press the key of the transmitter again to verify relay 1 (RR) activation, LR LED will turn ON and LV LED will flash.

At each activation, and for all the transmission time, LR LED will turn on, LV LED will flash and relay 1 (RR) remains activated.

To activate Relay 2 (RV)

- 1) Press PV until LV LED turns ON, then release PV
- 2) Within 2 sec. press the key of the transmitter you want to memorize. LV LED will flash and the relay 2 (RV) will activate for a while.
- 3) Press the key of the transmitter again to verify relay 2 activation, LR LED will turn ON and LV LED will flash.

At each activation, and for all the transmission time, LV LED will turn on, LR LED will flash and relay 2 (RV) remains activated.

#### b) Remotely

Note: One transmitter (two keys) have to be programmed locally to be able to programmed other transmitter keys remotely.

- 1) Press both keys of the transmitter that is already stored in the receiver until the receiver "beeps";
- 2) Release both keys and immediately press A or B key to select the corresponding relay to be programmed and hold key for 4 seconds. Relay LED will turn on and "beep" will be continuous
- 3) Within 2 sec., press the new transmitter key to be memorized.

Example:

Transmitter 1 (TX1) already stored, transmitter 2 (TX2), key A= Realy 1 (RR) and key B= Realy 2 (RV)

Press keys A & B of TX1 (bip); Press key A of TX1 for 4 sec.(Biiiiiiiip); Press key A of TX2 within 2 sec.

Press keys A & B of TX1 (bip); Press key B of TX1 for 4 sec.(Biiiiiiiip); push key B of TX2 within 2 sec.

**NOTE :** Memory capacity is 85 transmitter keys. A 4-keys transmitter needs 4 memory positions, if all 4 keys are used. The receiver memory is full when, at the end of step 2 of transmitter memorization, LV and LR LED flash 3 times. A transmitter key can not activate both relay (RR and RV).

### TRANSMITTER KEY OVERWRITE

**NOTE :** Before starting, obtain the memory position and relay activation (1 or 2) of the transmitter key you wish to overwrite. See "Memory Psition" section.

- 1) Press down PR or PV for 4 sec. until the corresponding LED remains lit, then release it.
- 2) Within 2 sec., press down PV for 1 sec. (LED will turn off)
- 3) Within 2 sec., start to enter the memory position sequence by using PR (red LED) and PV (green LED). See memory position table.
- 4) At the end of the sequence LV or LR LED will turn on.
- 5) Within 4 sec., press the key of the new transmitter you wish to memorized. This new transmitter key will overwrite the old one.

## RELAY CONFIGURATION

### RELAY STATUS:

Note: The receiver factory default setting is pulse for both relay

Press down **PR** or **PV** for 4 sec. and note the LED state (LR or LV). The following table determine the relay status :

Relay operating mode ( RR or RV )	LED operating mode ( LR or LV )
Pulse	LED ON
Latched (RR only)	Slow blinking
Timed	Fast blinking

### RELAY SETTING:

The relay operating mode is cyclic, change the mode according to the following rules:

Relay operating mode cycle	
If the relay is set as pulse	1- it becomes latching 2- it becomes timed if you press the timing sequence after step 2
If the relay is set as latching	it becomes pulse
If the relay is set as timed	it becomes pulse

Relay Configuration Not Allowed
Relay 1 (RR) latching and Relay 2 (RV) timed
Relay 1 (RR) timed and relay 2 (RV) timed (with different delay time)

To change the mode follow these steps:

- 1) Press **PV** or **PR** for 4 seconds. LED will illuminate displaying relay status. Use Table above to determine the status.
- 2) Within 1 sec., press **PR** to change the relay mode. The relay mode will change according to the relay setting table above.

Note: To configure the relay output time, enter the timing sequence after step 2, see relay timing table below.

### RELAY TIMING:

**Important:** To set or modify relay timing, the relay has to be set as pulse before.

- 1) Press **PR** for 4 sec. The **LR** LED will turn ON (if not, set the relay operation to pulse, see **Relay Setting** section).
- 2) Press **PR** for 1 sec. and **LR** LED switch to OFF. Within 2 seconds, start the seven digit, **PR** and **PV** sequence, to set the relay timing (See table below)

**PR**= not selected (0)      **PV**= selected (1)

Pressing sequence	1	2	3	4	5	6	7
Seconds	1	2	4	8	16	PR	PR
	10	20	40	80	160	PV	PR
Minutes	2	4	8	16	32	PR	PV
	20	40	80	160	320	PV	PV

**Example 1:** 8 sec. relay activation

Pressing sequence	1	2	3	4	5	6	7
Seconds	PR	PR	PR	PV	PR	PR	PR
	10	20	40	80	160	PV	PR
Minutes	2	4	8	16	32	PR	PV
	20	40	80	160	320	PV	PV

Input sequence= PR + PR + PR + PV + PR + PR + PR= 8 sec.

**Example 2:** 2 min. relay activation

PR and PV pressing sequence	1	2	3	4	5	6	7
Seconds	1	2	4	8	16	PR	PR
	10	20	40	80	160	PV	PR
Minutes	PV	PR	PR	PR	PR	PR	PV
	20	40	80	160	320	PV	PV

Input sequence= PV - PR - PR - PR - PR - PR - PV= 2 min.

## MEMORY POSITION

- 1) Press transmitter key to verify if its associated to the receiver. **LR** or **LV** will turn ON and the related relay will activate.
- 2) Press and hold **PR** for 1 sec. and then release it. A sequence of 7 flashes of the LEDs (**LR** and **LV**) starts. Note the LED color sequence. Refer to the following table to decode the sequence.

Flash sequence	1	2	3	4	5	6	7
LV (green LED)	1	2	4	8	16	32	64
LR (red LED)	0	0	0	0	0	0	0

LR=0 all the time.

Add the value of **LV** (where it flashes in the sequence) to obtain the memory position. See example below.

**Example 1:**

Flash sequence	1	2	3	4	5	6	7
LV (green LED)	-	-	Flash	Flash	-	-	-
LR (red LED)	Flash	Flash	-	-	Flash	Flash	Flash
Sequence Value	0	0	4	8	0	0	0

Memory position= 0 + 0 + 4 + 8 + 0 + 0 + 0= 12

The transmitter key is located at memory position #12.

## ENROLLED TRANSMITTER KEYS

- 1) Press down **PV** for 1 sec. **LR** and **LV** LED starts a sequence of 7 flashes. Note the color sequence and refer to the above table to obtain the number of enrolled transmitter keys.

## MEMORY RESET (FACTORY DEFAULT)

- 1) Press **PR** until **LR** LED turns on.
- 2) Release **PR** and within 1 sec. press **PR** and **PV** simultaneously until **LR** and **LV** LED starts to flash 3 times (about 4 sec.)

At this point all settings are erased and the receiver is reset to factory default.

## COMPATIBLE TRANSMITTERS



**2-Channel Transmitters**  
S2TR2641E2  
Available with built-in proximity badge  
S2TR2641E2H



**4-Channel Transmitters**  
S2TR2641E4

**2-Channel Mini Transmitters**  
Red: SETR2641AM2R  
Blue: SETR2641AM2B  
Burgundy: SETR2641AM2C  
Dark Gray: SETR2641AM2N



**2-Channel Ultra-Thin Transmitters**  
S5TR2641E2S

**4-Channel Ultra-Thin Transmitters**  
S5TR2641E4S

Available with optional built-in proximity badge

## FACILITY CODE AND SERIAL NUMBER LOCATION





Relay 1 (Red LED): \_\_\_\_\_

Relay 2 (Green LED): \_\_\_\_\_

#	FC Code	Serial #	Key Button	Relay	User Name
1			A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/>	1 <input type="checkbox"/> 2 <input type="checkbox"/>	
2			A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/>	1 <input type="checkbox"/> 2 <input type="checkbox"/>	
3			A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/>	1 <input type="checkbox"/> 2 <input type="checkbox"/>	
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#	FC Code	Serial #	Key Button	Relay	User Name
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