



WIERA-4K

## WIERA WIEGAND Remote Controls

Versatile 433MHz remote control transmitters & receivers with AES Encryption & rolling-code security features.

Receivers for access control system integration (**Wiegand** compliant outputs)

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### Applications

- Security access control systems or standalone
- Remote keyless entry
- Remote Garage door & gate operation
- Car park barrier arms
- Home automation and security
- General & security lighting
- Swimming pool controls (pumps, lighting)
- Personal emergency alarming
- Any other application requiring wireless remote control

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### Features

- 4 button transmitter in Metallic styling, rated IP65
- 128 bit AES encrypted data transmission guarantees security as all transmissions are immune from code grabbing and code scanning
- 16 bit rolling-code further ensures only legitimate E-Keys are accepted
- Standard data-encryption key or your own unique data-encryption key
- Transmission range over 100m without substantial barriers
- Blue 'transmitting' LED on the transmitter for visual indication of any button press
- Battery life with normal use is estimated as more than the battery shelf life of 10 years
- Access Control System integration receiver
  - Four Wiegand compliant data output channels
  - The encryption key of the first transmitter is registered and all subsequent transmitters must match that of the first one seen by the receiver

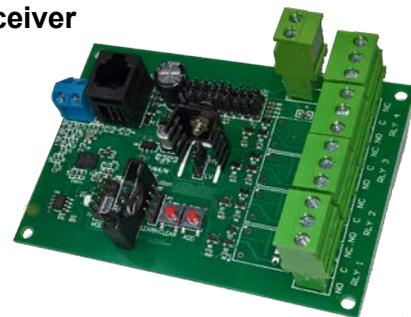


**Transmitter**

**Metallic**  
4 button transmitter

WIERA-4K: 4 buttons, IP65, with metallic trim

**Receiver**



**WIERA-4W**

4 Wiegand Compliant Data Outputs

### WIERA-4W

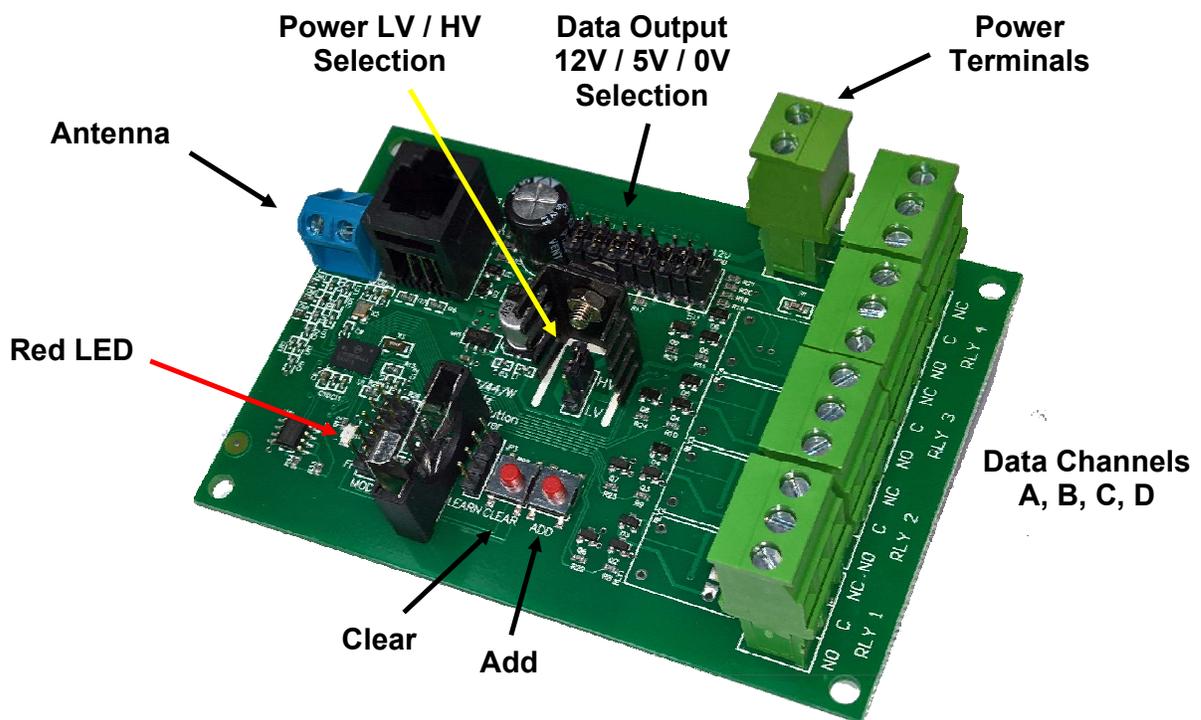
Receiver with four Wiegand compliant data outputs will work together with WIERA-4K transmitters programmed with your requested access system bit format and site-specific settings.

After the first transmitter is added to the receiver data base its encryption key is saved by the receiver. Subsequent transmitters are auto-added but only if they are using the same encryption key as the first one.

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## WIERA-4W Receiver

The WIERA-4W is powered by 12-28Vac/dc. It features four Wiegand compliant data output channels, each with screw terminals for two-wire connection to the access control system (ground via the power supply –ve terminal)



### Antenna

Two-terminal aerial + shield with two possible connection methods

1. Connect 160mm wire directly at the ANT terminal
2. Connect 160mm remote antenna with coaxial cable, centre core at ANT terminal & shielding braid at the SHLD terminal

### Data Channel Voltage Level Selection

Set each jumper with link at 12V or 5V side, or 0V (no link), to suit the access control system requirement. The links are in the 5V position by default

### Power LV / HV Selection

Set the link to suit the voltage level and source connected at the power supply terminals

1. Set link to LV end for 12Vdc battery
2. Set link to HV end for 12... 28Vac/dc power supply (default position)

### Power Terminals

Two-wire 12...24Vac/dc. Observe polarity. Set LV / HV link as outlined above. The –ve (negative) terminal serves as Common to the access control system ground

### Data Channel Connection Terminals

Data channels A, B, C, D, connected via RLY C (data 0) and NO (data 1) terminals. Data channel designators can be seen on the back side of the terminal block

Channel A	01A 00A	RLY1 / NO RLY1 / C
Channel B	01B 00B	RLY2 / NO RLY2 / C
Channel C	01C 00C	RLY3 / NO RLY3 / C
Channel D	01D 00D	RLY4 / NO RLY4 / C

### Red LED

Flashes at 2Hz frequency under normal operation. On solid during transmitter Clear & Add processes

### Clear

For clearing the receiver data base.

- Press and hold the Clear button until the red LED stays on continuously, which indicates that the data base memory is cleared
- Release the Clear button and the red LED will return to the normal 2Hz flash rate

Note that a previously saved encryption key will not be cleared. Any new transmitter to be added in future must have the same encryption key as previously

### Add

Not used. Access control system transmitters are auto-added.

### Learn

Not used for access control system applications

### Mode

Not used for access control system applications

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## Technical Data

WIERA-4W Power supply: 12...28Vac/dc, 1.1...2.6VA respectively with all relays in the powered-on state

WIERA-4K Power supply: Button cell, 3Vdc, CR2032 or equivalent

Button Life: >10,000 operations  
Protection class: WIERA-4W IP65

Dimensions (mm): WIERA-4W(box) 180mm x 100mm x 77mm

WIERA-4K 62mm x 36mm x 11.5mm

\* Excluding lanyard/keyring assembly

Operating Temperature Range: 0...50°C

Storage Temperature Range: -5...75°C

Humidity Range: 10...95%rH (non-condensing)



Third-party devices being remotely controlled must rely first and foremost on their own integrated safety elements for personal life safety and protection of equipment against damage.



For emergency call and other critical applications please always ensure successful transmission received from all likely locations where a WIERA transmitter may be operated from in relation to the installed receiver location.



Heavily reinforced walls and other dense barriers which may impede transmission receipt must always be considered when deciding the location of receivers or their antennae.

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