



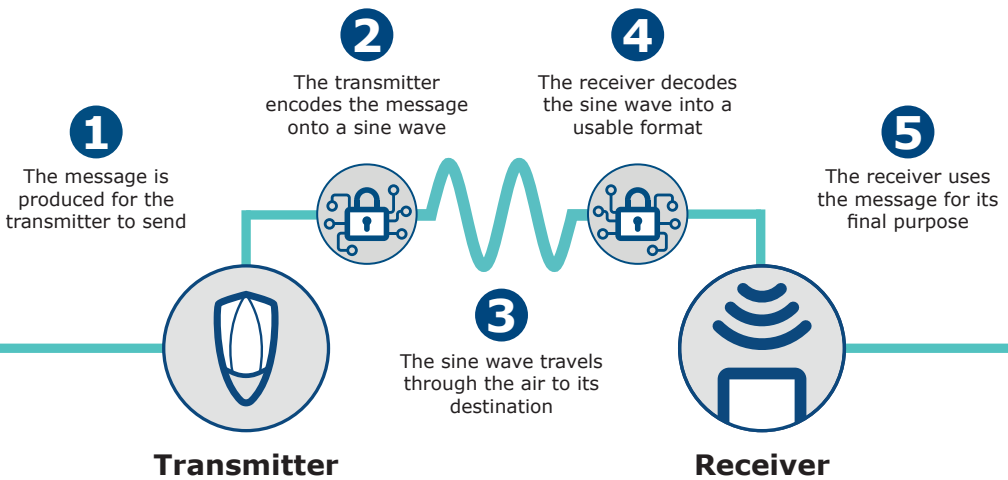
RADIO TRANSMISSION SOLUTIONS

www.cdvi.co.uk

What is radio transmission?

Radio transmission sends information from one place to another through the air via radio waves. It is a wireless type of communication. Transmission solutions consist of two essential components. A **transmitter** generates and sends the signal, while a **receiver** picks up the signal and displays or utilises the information contained in it.

How radio transmission works



Access control solutions

Radio transmission is an unsung hero of access control. It's ideal for wireless activation of automatic doors, gates, and lights. Secure and convenient, radio technology is flexible for a wide range of projects. With less wiring to run, installation is quick and simple.

Radio transmission sends data through the air. How can this kind of communication be protected from misuse? As radio technology has advanced, so have methods of intercepting signals for malicious purposes. Today, there are many different kinds of encoding and encryption to protect the data being transmitted.



KeeLoq® rolling code

This proprietary block cypher is intended to prevent hackers from intercepting and using signals sent via radio transmission. When a signal is sent, a 'password' is required to mutually identify the sending and receiving components. KeeLoq rolling code changes the password (on a *rolling* basis) with each signal that's sent. So even if the signal is intercepted, the next time the hacker tries to use the password, it has already changed.

AES encryption

Some CDVI transmission solutions add a layer of AES encryption. This military-grade security keeps data robustly protected. Cloning is a thing of the past!



Benefits of transmission



Easy installations

Less wiring and quick setup processes



Great for tricky projects

Listed buildings or glass walls made easy



Sleek automation systems

Better mobility for everyone



Data protection

Robust protocols keep data safe & secure



High reliability

Best-in-class products for quality results

Handheld transmitters

- 1, 2, or 4 transmission channels
- Options with AES encryption
- Ideal for attaching to keyrings
- Some with built-in proximity tag
- Range of stylish designs



TX26-E



TX26-T



TX26-S

Keypad transmitters

GALEO-R: a wireless keypad for activating automatic doors and gates. Polished Zamak casing, backlit keys, and up to 200m range.

- 22 codes
- 2 channels



GALEO-R

Transmitters for special applications



DIN rail mount
TX26-DIN



Externally rated
TX26-EXTB



Universal
TX26-MC1



Mains powered
TX26-M1



SENSIR

Touchless solutions

Infrared technology allows these transmitters to be activated with just a wave of the hand. Hygienic, easy, and convenient, touch-free solutions are ideal for a wide range of projects.

And they're battery-powered! For listed buildings or glass walls, it's a simple and effective solution.

Choosing the right receiver for your project

Our receivers come in a wide range of types and models. There are high security receivers, miniature receivers, externally rated receivers, Wiegand receivers, and more. How do you know which is right for your project? There are a range of factors to consider when choosing products.

Frequency and modulation

Frequency ensures the message is being sent to and from the right place. **Modulation** is the process of encoding the message onto waves.

Demodulation is converting waves to a usable format. Both frequency and modulation types should match in the transmitter and the receiver.

All transmitters and receivers sold by CDVI in the UK operate at 433.92MHz.



Number of relays

-  A relay is a switch that opens or closes an electrical circuit
-  For every relay it has, the receiver can control one circuit
-  Our receivers come with one, two, or four relays

Power supply

Receivers may be connected to a wired power supply or mains electricity. It's important to ensure you have the right product with a power requirement that matches the rest of your system.

All our receivers are either 12/24Vac/dc or 240Vac powered.

Special features



DIN rail mount
RX26-DIN



Mains powered
RX26-MF



Bluetooth ready
RX26-NANOCUBE



Externally rated
SELW-2630MF

Ultra High Frequency

Ultra high frequency radio transmission is an ideal solution for automated gates securing commercial car parks, gated communities, and educational campuses.

By utilising radio frequency technology, cars can be granted access only when they drive within range of the gate's reader. It's simple, secure, and reliable.



How it works

The reader puts out a 'cone' of transmission signal in front of the automatic gate. The cars have a card or tag attached somewhere on their vehicle. When the car drives up to the gate, the card or tag is detected by the reader within the transmission zone. If it's valid, the gate is triggered to open.

- Standalone mode for up to 7,560 UHF credentials & 100 remote keys
- Wiegand mode (26-, 30-, or 44-bit) to link to access control systems
- AES128-bit encryption to robustly protect data transmission
- Choose standard cards for inside the vehicle or adhesive stickers and tags for outside the vehicle



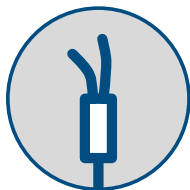
Long-range access control is a cost-effective method of creating a hands-free entry system. It's perfect for care homes, warehouses, and anywhere else where hands-free access control is more convenient. Users only need to have their card on a lanyard or in their pocket. The reader can pick up their credentials up to 15m away*.



How it works

- Cards contain an active tag that puts out a radio signal
- The reader contains the receiver component
- When the card is in range of the reader, the signal put out by the card is picked up
- When the transmission is complete, access is granted

Standalone or Wiegand models



Standalone card reader and controller with self-contained electronics. Ideal for small projects with fewer than five doors and fewer users.



Wiegand card reader for connection to online access control systems. Great for bigger sites which need more tracking and reporting.

Dual-technology credentials



Active tag only



Active tag plus 125kHz proximity



Active tag plus 13.56Mhz MIFARE®

*dependent on the environment



Also available from CDVI:



**Innovative
Access
Control**



**Powerful
Biometric
Solutions**



**Universal
Door
Automation**



**Robust
Secure
Locking**

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