

MicroLatch Wiegand RF

Product Overview



Products

- Microlatch have an expansive range of Wiegand RF products combining low and high security solution measures



Functional Overview

- Flexible and secure Wiegand Radio Frequency (RF) access control solution offering standalone security to a single control point or as part of an integrated large scale access security environment
- Ideal for adding long range RF capability through retrofitting to or expanding existing security systems
- Enhanced security using your existing systems, leverages existing investment and enables consolidation of costs
- Increased functionality as the Receiver provides a 4-Channel output for multiple system control, including access control, alarm operation and keyless entry

Product Overview

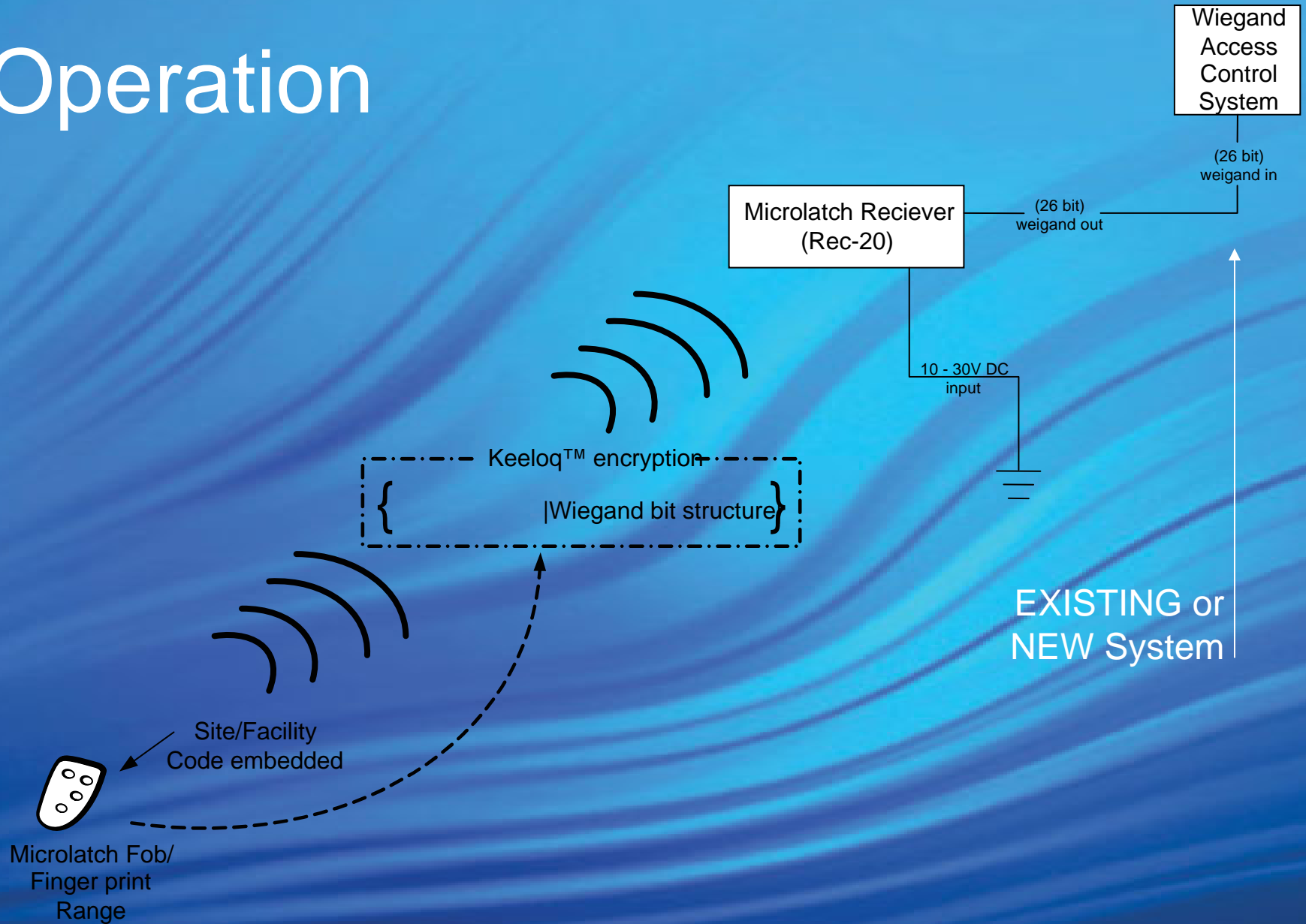
- This product is designed to provide a convenient high security RF interface to an access control system



Wiegand Overview

- The Microlatch Rec-20 Wiegand receiver utilises 26 bit Wiegand, this allows Microlatch™ products to interface with any Wiegand based access system
- The Wiegand numbers are encoded through RF encryption using KeeLoq™ serial number
- Enhanced security as this serial number is encrypted so that the Wiegand number cannot be derived through capturing the RF signal

Operation



RF Receiver (Rec-20) Modes

- The REC-20 may operate in one of two modes

Mode 1

- The received signal is decoded into a 26 bit Wiegand number and can switch up to one of 4 outputs
- Depending on the device, the output corresponds to the button pressed. This can be up to 4 outputs and presents this information for input to the access control system
- In this mode up to 4 access points may be controlled from the one receiver, with one input to the controlling system

RF Receiver (Rec-20) Modes

Mode 2

- Enables an output which decodes up to 4 users or functions, providing the ability to support multiple users on single device
- Eliminates the requirement to carry multiple cards or devices (in effect each button becomes the card or a different user)

Note: Either Mode 1 or Mode 2 are automatic in operation and are based on the Fob programming from the Factory (Operation required is determined prior to order)

Additional Information

- RF signals are crystal locked on 433.92MHz.
- The receiver does not filter the site code but simply passes the received signal to the access system for processing if the manufacturer ID matches. This allows more flexibility. Fobs/devices do not need to be individually learnt to receiver
- Fobs will be factory programmed to meet individual site requirements.
- All Microlatch™ fingerprint reader products are compatible with this receiver.
- Fobs are fully compatible with Microlatch™ standard receivers eg: REC-18, REC-14. That is the same fob may be used with a Wiegand access system and also be learned to a REC-18 for home.
- If additional protection of the Wiegand identities is required by a customer then a closed user group of fobs and receivers can be provided.

Wiegand Technical

- Data is 26 bit Wiegand encoded in hexadecimal
- The Rec-20 receiver splits this data as follows
 - » User number - Bits 0 to 15
 - » Site code - Bits 16 to 23
- Example; a fob with site code 113 user 7 will appear as a decimal value of “0710007”
- Therefore: 071(site) 0007(user)

The Products

