

This active RFID reader offers a perfect access solution and provides instant report of all detected Wavetrend active RFID tags.

This active RFID reader offers a perfect access solution and provides instant reporting of all detected Wavetrend active RFID tags. It responds automatically without the need for a PC or software applications once tag IDs and I/O positions are uploaded. This RFID reader allows up to 500 unique tag IDs and I/O positions to be loaded. RS232, RS485 and USB connection are available.

This compact access RFID reader can operate in rugged conditions at ultra long ranges and can be configured to run in direct control via a PC or in response mode as a standalone unit. In direct control mode the client PC will receive data from this access reader and can switch the readers I/O's on/off to lift barriers open/shut doors as directed.



It can be upgraded to increase the standard number of tag IDs and I/O positions if required. Its data output can be selected as a Wiegand output allowing it to be directly controlled by existing door controllers. This portable active RFID reader can be deployed as a standalone unit for tag detection. In tag detection applications, users can select the distance that a tag is read and a response from the I/O. It is ideally suited for proximity alarms in industrial applications. When a fixed list of up to 300 assets is required in or out of a zone, the access reader can be preset to respond to all in all out events.

Key Feature

- ✓ Standalone store mode for up to 300 tags
- ✓ Selectable Wiegand conversion outputs
- ✓ Collision avoidance functionality
- ✓ RS232, RS485 and USB connection
- ✓ Supports wide variety of antennas to achieve custom coverage areas
- ✓ Compatible with L Series

Key features	Benefits
Remote readers are powered via standard CAT5 cable centralized or distributed PSU topology may be used.	Units can be powered over the network or individually depending on the clients' requirements
Certified for FCC and ETSI	Can be deployed in all major countries
High RF long and short range sensitivity	High near field resolution < 0.5m
USB connection	Allows easy installation diagnostics and demonstrations
RF hardened receiver	Maintains high performance in RF noisy backgrounds
Configurable protocol support for L series	Can read both L series tags
Selectable Wiegand format output	Connecting directly into existing door controllers, the reader can be used as a direct replacement for a passive swipe card reader.
Standalone mode	Automatic response to pre-loaded Tag IDS and IO control without the need of a PC or software application.

Typical read ranges of tags with various antennas

(Distances may vary depending on the ambient RF environment and site configurations and may not match those stated in this sheet. Read ranges will generally be greater outdoors than indoors. With specialist antennas, ranges in excess of 500 m can be achieved.)

Antenna Type	Read Range
304001	¼ Whip up to 50 m
304002	½ Stub- up to 20 m
304004	Circular patch up to 150 m
304005	Outdoor Whip up to 150 m

Serial Networking hardware

Completing the networking suite for all power and access control requirements please refer to the 214042 and IPSU.



Technical Specifications

Environmental	
Operating temperature	- 40 °C to 85 °C
Storage temperature	- 20 °C to 70 °C
Humidity	5% to 90% (Non condensing)
IP Rating	IP50
Physical	
Size	105 mm x 58mm x 28mm
Weight (unit)	118 grams
Color	Aluminium Grey
Material	Aluminium
Connections	1 x RJ45 socket 1 Mini USB type socket 2.5mm Power socket 2 pairs of relay contacts, C, NO , NC
Radio Frequency	
Receive Frequency	433.92 MHz
Modulation	ASK
RF Input	60 Ohm BNC
Electrical	
Supply Voltage	7 V to 16 V DC
Max. current consumption	60 mA
Two pairs of re lay contacts rated	1A

Protocol Specification

Standard Data Rate	9,600 to 115,200 (baud rate)
Interface	RJ45 connectors



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