AR200U
Mid Range RFID Wiegand Reader

MAG®

New version
EXRF
Extended RF
Technology

Introduction

By adopting **EXRF technology** AR200U achieves a more stable and powerful reading power to penetrate vehicle solar film. This allows users to flash their card more conveniently and comfortably from better range. In term of stability and resistance to interference, the performance of EXRF also has been proven much excellent than old type mid range technology.

AR200U can effectively penetrate solar film and allows CDS18L mid range proximity card to be read from inside the car without winding down windows.

CDS18L is passive RFID card (without battery) that offer more affordable and convenient car parking access control. Ideal solution for residential and commercial building. No more hand getting wet during rainy day and less car robbery risk at entrance.
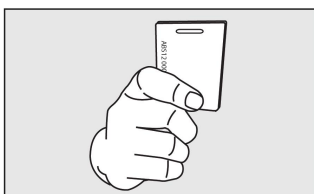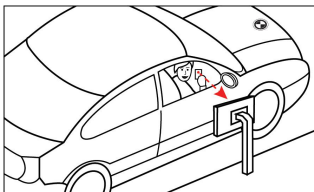
Features

AR200U has built in auto-tuning function to compensate presence of metal and interference. Red LED display at front section indicates frequency deviation from 125Khz due to noise interference at site. This can be used to determine best installation location with minimum interference to achieve maximum reading range. Blue LED display at front indicates reading and error status.
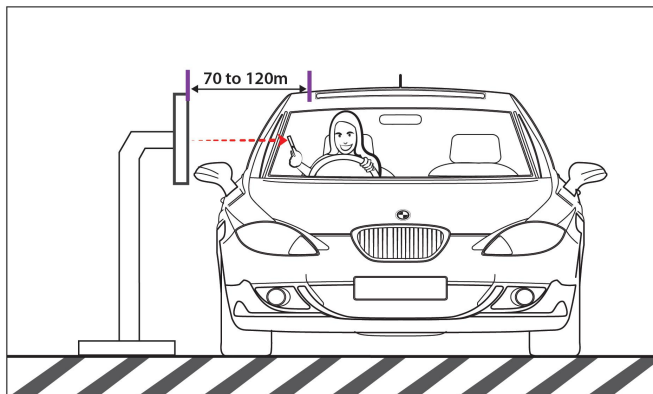
Specification

Interfaces	Wiegand 26,34 (selectable output option)
Reading Range	70 cm to 120 cm depending on interference at site and types of solar film installed on car.
RFID Cards Accepted	125KHz, 64 bits, Manchester encoding
power consumption	DC 19.2V, Idling = 300 mA, scaning card = 330 mA
Operating Temperature range	- 10 ~ +60˚ C
Audio /Visual indication	Bright blue LED and buzzer
Dimensions	420 (w) x 320 (L) x 45(D) mm

How it works?

Flash passive card by hand to achieve more affordable mid range access.
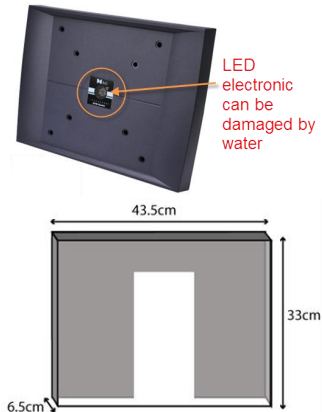

70 to 120m

AR200U should be same height with vehicle side windows to achieve best reading range
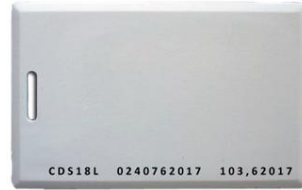
Accessories

AR200HSE waterproof housing
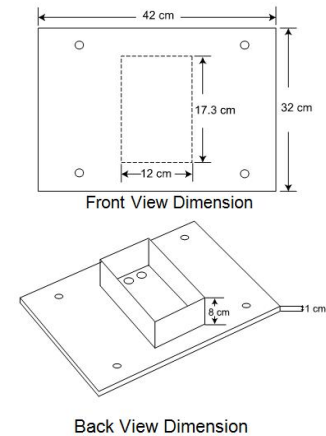AR200U is not fully waterproof and requires external housing for outdoor installation.

LED electronic can be damaged by water

43.5cm

33cm

6.5cm

CDS18L Long Range Card
EXRF enhanced mid range card. reading range from 70 to 120 cm

CDS18L 0240762017 103,62017

AR200BKT Mounting Bracket
Acrylic Mounting Bracket to mount AR200U to Gooseneck

42 cm

17.3 cm

32 cm

12 cm

Front View Dimension

8 cm

1 cm

Back View Dimension

Surge protection

Any electronic devices installed outdoor is susceptible to damage by lightning surge. Warranty does not cover AR200U damaged by lightning surge. Therefore correct surge protection is important to ensure AR200U is well protected.

All surge protector and metal housing must be connected EARTH as following diagram ;

PD24 / 7.5 Data and Power surge protector install inside gooseneck

AR200U reader

WG Data

19.2 V

Use cable lug to connect Earth cable to Earth point inside gooseneck.

Please ensure that the cable lug and screw have good connection with lowest electrical resistance.

Must spray with orange color paint to prevent rust on connection surface.

Rust and bad connection will reduce effectiveness of surge protection.

Earth cable connect to Earth point inside barrier gate housing

C-240AC surge protector

AC230 main supply from TNB

Guard house

MCB

C-240AC surge protector

AC230 Live and Neutral

AC230 Live & Neutral

Main EARTH from AC230 Supply

Earth connect to metal box

Access Controller

TPLAN Data surge protector

19.2V Power Supply

PSP24 DC Power surge protector

Common EARTH connection - 2.5mm full copper wire

WG Data

19.2V DC power

Ordering Information

Model	Description
AR200U	EXRF mid range Wiegand reader
CDS18L	EXRF mid range 125Khz proximity card
GSSD	Gooseneck
AR200BKT	Mounting bracket for AR200U
AR200HSE	Waterproof housing for AR200U

Model	Description
PD24/7.5	Protect AR200U's WG data and 19.2V
C240 AC	Protect AC230 power supply for barrier gate, access controller and AR200U's adapter.
TPLAN	Protect 2 port WG data at access controller.
PSP24	Protect AR200U's power supply