

COSEC ARC CONTROLLER



COSEC ARC DC200P & ARC DC200S Quick Installation Guide



Please read this guide first for correct installation and retain it for future reference. The information in this guide has been authenticated at the time of publication. However, Matrix Comsec reserves the right to make changes in product design and specifications without prior notice.

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Warranty

Limited Warranty. Valid only if primary protection is provided, mains supply is within limit and protected, and environment conditions are maintained within product specifications. Complete warranty statement is available on our website: www.matrixaccesscontrol.com



MATRIX COMSEC

Head Office
394-GIDC, Makarpura, Vadodara - 390010, India
Ph: (+91)1800-258-7747
Email: Support@MatrixComSec.com

Website: www.matrixaccesscontrol.com

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Know Your COSEC ARC DC200

Figure 1: Top View

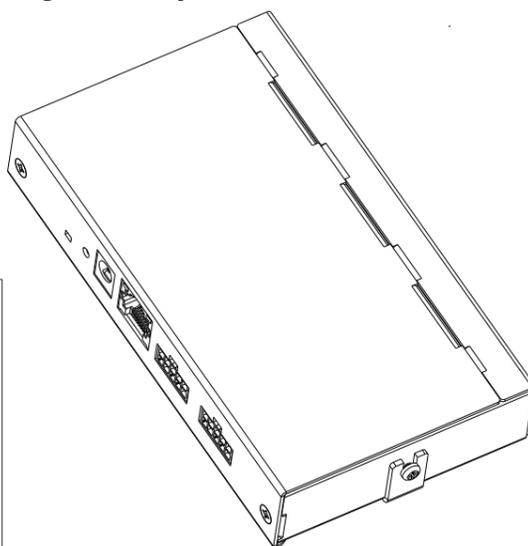


Figure 2: Rear View

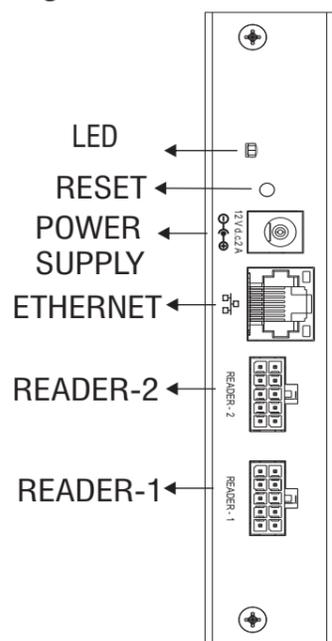
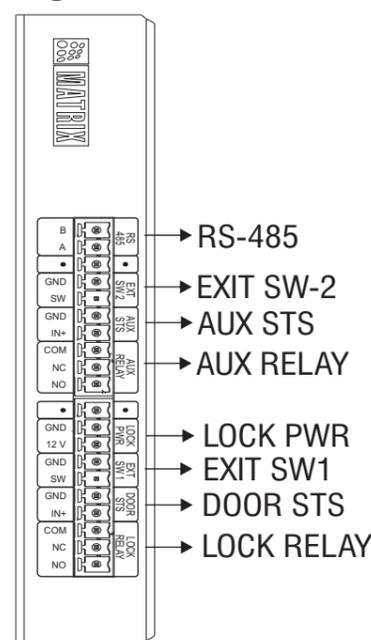


Figure 3: Front View



What Your Package Contains

COSEC ARC DC200P/S

- ✓ Two Wall Plug Plastic 8x35
- ✓ Two Screw M5x24 CSK PH
- ✓ Power Adaptor 12V 2A
- ✓ Plug Mains 2A IN
- ✓ Green Connector
- ✓ Cable Assembly
- ✓ Two Reader Cables

Things You Will Need

- ✓ A Power Drill
- ✓ A wire Stripper
- ✓ A screw driver set
- ✓ Insulation tape
- ✓ Access to COSEC Server application to configure COSEC ARC controller on Server.
- ✓ A stand-alone computer with a web- browser to change the network settings of COSEC ARC controller.



WARNING

- ✓ Installation and servicing should be done only by a qualified technician.
- ✓ There are no user-serviceable parts inside.
- ✓ Opening or removing the device cover may result in electric shock or exposure to other hazards.
- ✓ Use this product only for the purpose for which it was designed.

Powering ON ARC DC200

Apply Power to the COSEC ARC DC200 and wait for the reboot cycle to complete. At the time of device start up i.e. Bootloader state, the LED will glow to a constant Orange color.

The COSEC ARC DC200 has a multicolour LED indicator for different states of device. The table below shows some common indications:

LED Status Indicators

Device State	LED Response
Online	Green-Constant ON
Offline	Red blinking for 200ms
Degrade	Green blinking for 200ms
Bootloader State	Orange-Constant ON
Waiting for firmware upgrade	Red & Green-Alternate blinking for 600ms
Firmware upgrade process	Orange blinking for 600ms

Technical Specifications

Specification Parameter	ARC DC200P	ARC DC200S
General		
Readers	Up to 2 Readers per controller (Wiegand and/or RS-485)	
Doors	1 Door per controller	
User Capacity	50,000	
Event Buffer	5,00,000	
Input Power	External Power Adaptor 12V DC @ 2A AND PoE/PoE+	
Communication	WiFi, Bluetooth and PoE+	PoE+
LED	LED	
Readers		
Power	12V DC at maximum 250mA per Reader	
Interface	RS-485 and Wiegand	
Reader Types	2 reader ports for any Wiegand or Matrix PATH reader. Note: RS-485 interface is for Matrix PATH series reader only	
IN/OUT		
Exit Switch Port	Yes	
Door Status Sense	Four State Supervised	
Door Lock Relay	30VDC @ 2A	
Door Lock Power	PoE: 12V DC @0.5A PoE+: 12V DC @1A Adaptor: 12V DC @1A	
Aux Input Port	Yes	
Aux Output Port	Max 30VDC @ 2A	
Physical		
Dimensions (WxHxD)	78mm x 140mm x 25mm	
Weight	450 g (product only) 740 g (product with accessories)	
Environmental		
Operating Temperature	-10 °C to +50 °C	
Humidity Range	5% to 95% RH Non-Condensing	

**Communication with ethernet & RS-485 is possible in both the variant.

Installation Instructions-DC 200 Wall Mounting

Step 1 Remove the screw from the bottom side of enclosure. Pull out the wall mounting plate from the mounting hook on back side of door.

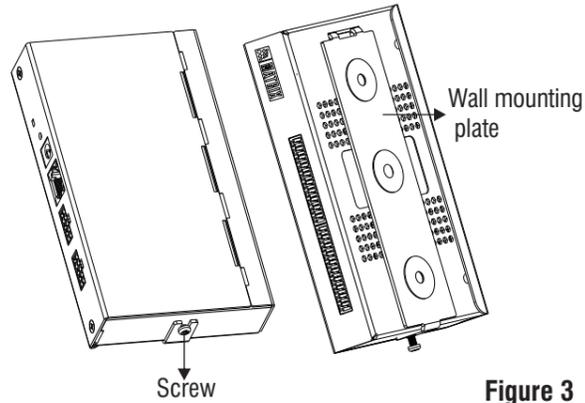


Figure 3

Step 2 Trace screw holes A and B on the wall through the Mounting plate. Drill screw holes along the traced markings.

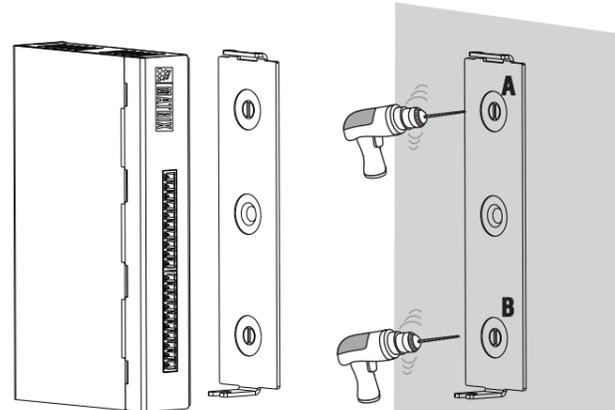


Figure 4

Step 3 Fix the Mounting Plate with supplied screw grips and screws. Fix the Mounting hook of the door into the mounting slot of mounting plate.

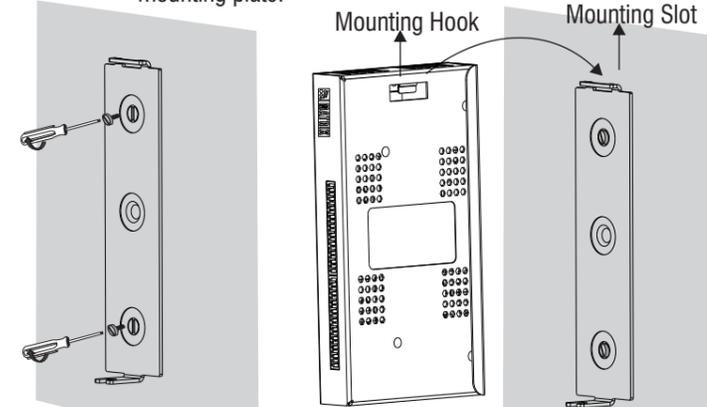


Figure 5

Step 4 The door gets mounted on the wall.

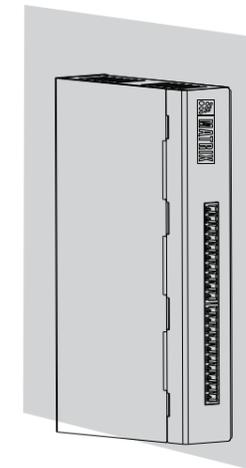


Figure 6

Installation Instructions-DC 200 DIN Rail Mounting

Step 1 Remove the screw from the bottom side of enclosure. Pull out the wall mounting plate from the mounting hook on back side of door.

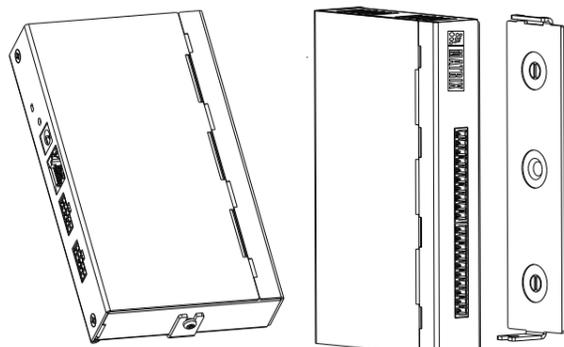


Figure 7

Step 2 Place the spring washer in the Din Rail Mounting hole. Fix the screw through the spring washer to fix DIN Rail Clamp(6MBCHK) and Mounting plate. Tighten the screw.

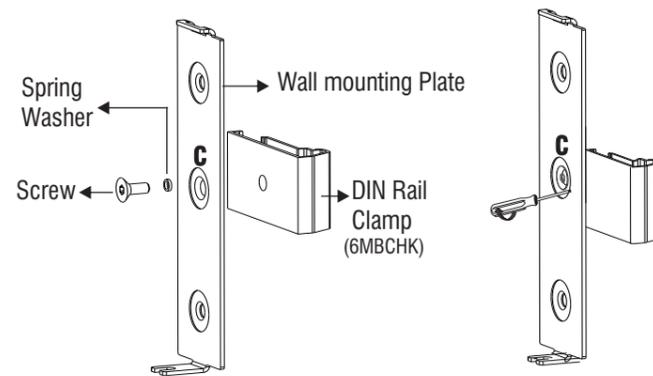


Figure 8

Step 3 Fix the Mounting hook of the door into the mounting slot of mounting plate.

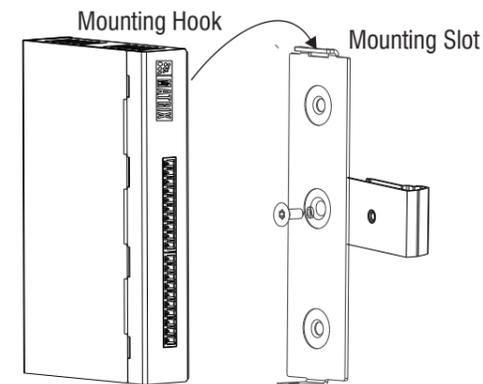


Figure 9

Step 4 Fix the assembly of Door and DIN Rail Clamp to hold on the DIN Rail horizontally or vertically.

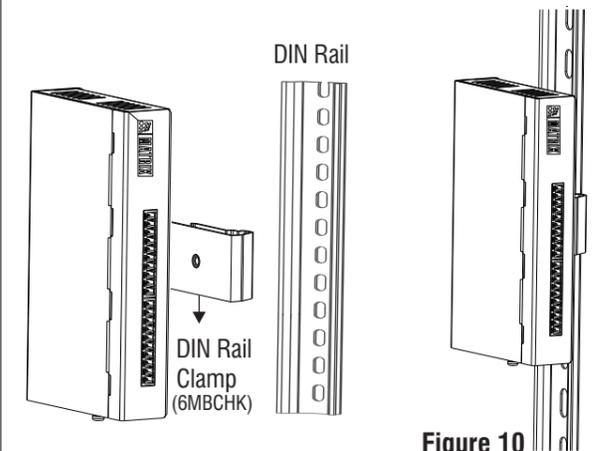


Figure 10

Connecting to COSEC Server

Assigning IP Address & Other Network Settings

- ✧ Open the Web browser in your computer.
- ✧ Enter the IP address of the ARC Controller (default: <http://192.168.50.1>) in the address bar of the browser and press the Enter key on your computer keyboard.
- ✧ When prompted, enter the login credentials for the Door.

Default Username: **Admin**
Default Password: **1234**

- ✧ Click **OK**.
- ✧ On the Door Web page, select the **Settings** link. Go to **LAN Settings**. Enter the IP address to be assigned to the Vega Controller and configure Subnet Mask, Gateway IP address, Preferred and Alternate DNS as required as shown in Figure17.
- ✧ You can also configure **Wi-Fi** or **Mobile Broadband** settings.
- ✧ Go to **Basic Profile** and select the server as **COSEC CENTRA** or **COSEC VYOM** and the door type as **Direct Door** or **Panel Door** as shown in Figure18.
- ✧ Go to **Server Settings** and enter the URL and Port of the selected server where the device is to be connected as shown in Figure19. For COSEC VYOM, you must specify Tenant ID also.
- ✧ Then click **Submit** to save the Settings.
- ✧ The device will come online if the monitor service is running.

Figure 11

LAN Settings

IP Assignment	Static
IP Address *	192.168.104.115
Subnet Mask *	255.255.255.0
Default Gateway	192.168.104.1
Preferred DNS	192.168.100.5
Alternate DNS	
MAC Address	00:1b:09:03:2d:db

Submit
Cancel
Default

FCC Compliance

This device complies with part15 of the FCC rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits of Class A digital device, pursuant to part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Warning

This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Disposal of Product after End-Of-Life

WEEE Directive 2002/96/EC

The product referred is covered by the waste Electrical and Electronic Equipment (WEEE) directive and must be disposed of in a responsible manner.

At the end of product life cycle; batteries, soldered boards, metal components and plastic components must be disposed through recyclers.

If you are unable to dispose-off the products or unable to locate e-waste recyclers, you may return the products to Matrix Return Material Authorization (RMA) department.

Product	Compliance
ARC DC 200	