

COSEC ARGO

COSEC ARGO CAE200/ CAM200/ CAI200



COSEC ARGO FOE212/ FOM212/ FOI212



Contents

Know your COSEC ARGO	3
What your Package Contains	7
Assigning IP Address and Other Network Settings	7
Preparation for Installation	8
Technical Specification	9
Installation Instruction - Wall Mounting	11
Installation Instruction - Flush Mounting	17
Connecting the Cables	23
Assigning IP Address	24
Technical Specifications	25

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.

Know your COSEC ARGO

The COSEC ARGO is available in two series with three different variants in each series as follows:

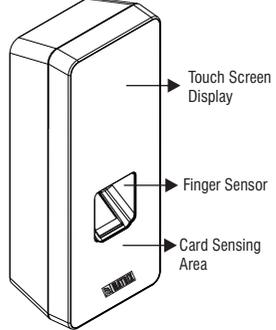
1) COSEC ARGO with variants **FOE212**, **FOM212** and **FOI212**.

2) COSEC ARGO with variants **CAE200**, **CAM200** and **CAI200**.

Front View

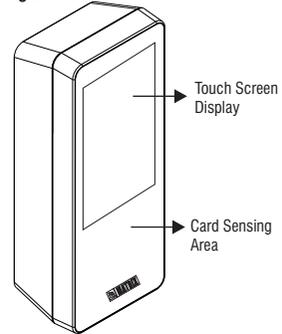
ARGO (FOE212/ FOM212/ FOI212)

Figure 1a



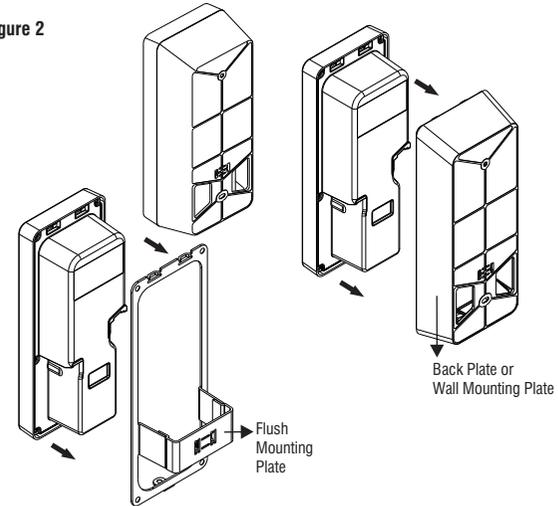
ARGO (CAE200/ CAM200/ CAI200)

Figure 1b



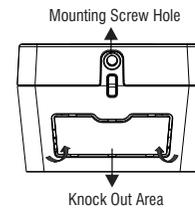
Rear View (Common for both Series)

Figure 2



Bottom View (Common for both Series)

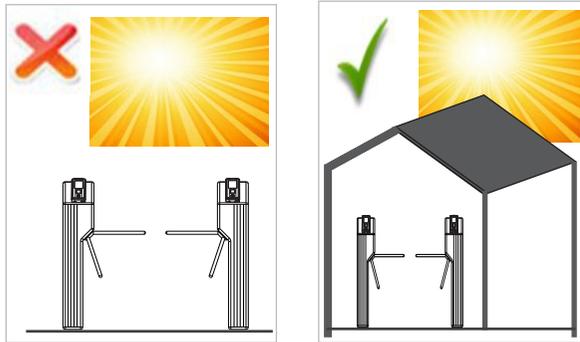
Figure 3



Pre-Installation Safety Instruction

1. Do not install the device in extremely hot temperature or under direct Sunlight on turnstile or at extra bright places. This may affect the LCD and finger print sensor of device. You can do indoor installation or on the turnstile under the roof as shown in **Figure 4**.

Figure 4



2. You can mount the device on a flat surface such as a wall or near the elevator, close to the access point (door) with surface wiring or concealed wiring as shown in **Figure 6**.

3. Recommended height from ground level is upto 4.5 feet.

4. Do not install on unstable surfaces, near volatile inflammable materials, areas where volatile gas is created, where ferromagnetic field or noise is induced, where static is created, such as desks made of plastics, carpets.

5. Do not install the device in outdoor areas which may be exposed to rain, cold and dust. You can do indoor installation or on the turnstile under the roof as shown in **Figure 5**.

Figure 5

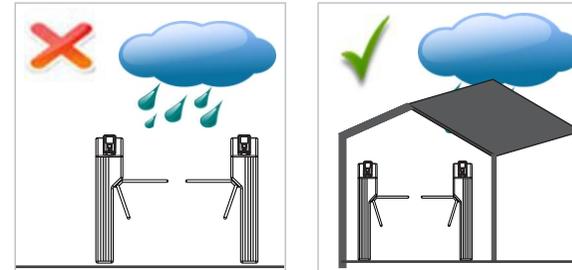
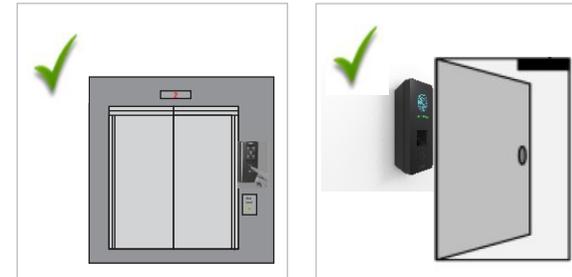


Figure 6



What your Package Contains

- | | |
|-------------------------|--------------------------------------|
| 1) COSEC ARGO Unit | 6) Power Adapter 12VDC,2A |
| 2) Flush Mounting Plate | 7) Power Supply Cable (with DC Jack) |
| 3) Four Screws M5/25 | 8) EM Lock Cable |
| 4) Four Screw Grips | 9) External Reader Cable |
| 5) Overswing Diode | 10) Flush Mounting Template |

Preparation for Installation

Before Wall Mounting and Flush Mounting of COSEC ARGO follow below instructions.

- Remove the mounting screw from mounting screw hole of the bottom of device as shown in **Figure 3**. The screw will be required to fix the device after Wall Mounting or Flush Mounting.
- Slide the back plate downwards to unlock the device from the mounting hook and then remove it by pulling it outwards. This back plate server as the Wall Mounting plate. For details see Installation Instructions for Wall Mounting.
- The Flush Mounting plate is available in the package. This plate will be required for Flush Mounting of COSEC ARGO. For details see Installation Instructions for Flush Mounting.

Wall Mounting: Select a location. It must be a flat surface such as wall, close to the access point (door).

Flush Mounting: Select a wooden door or a location where the duct can be made. The rectangular duct has to be made in the wooden door in which Flush Mounting plate will be installed.

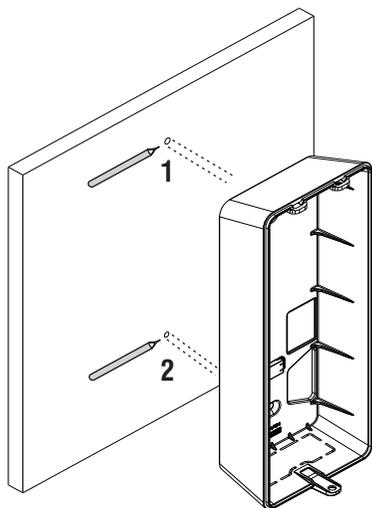
For **Concealed wiring** in Wall Mounting/Flush Mounting, first draw out the sufficient length of the cables from the hole of the mounting plate.

For **Non-concealed wiring** in Wall Mounting; the knock -out area has to be removed from outside by pressing on the bottom duct as shown in **Figure 3**.

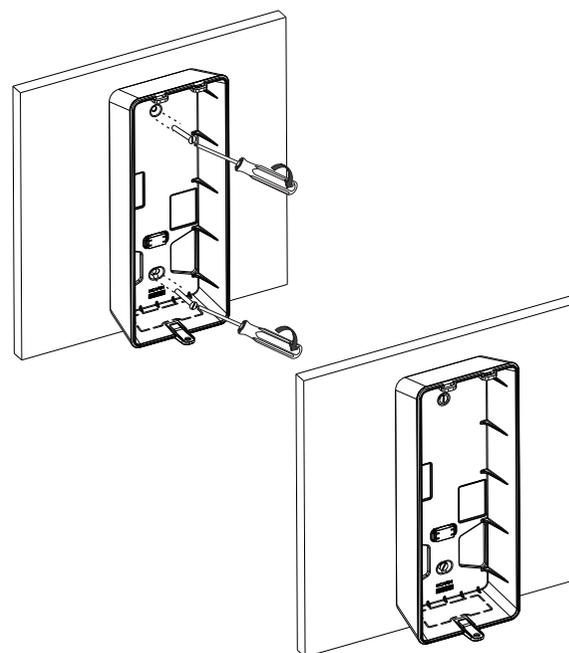
The connection of EM Lock must be done using the diode for Back EMF protection.

Installation Instruction: Wall Mounting

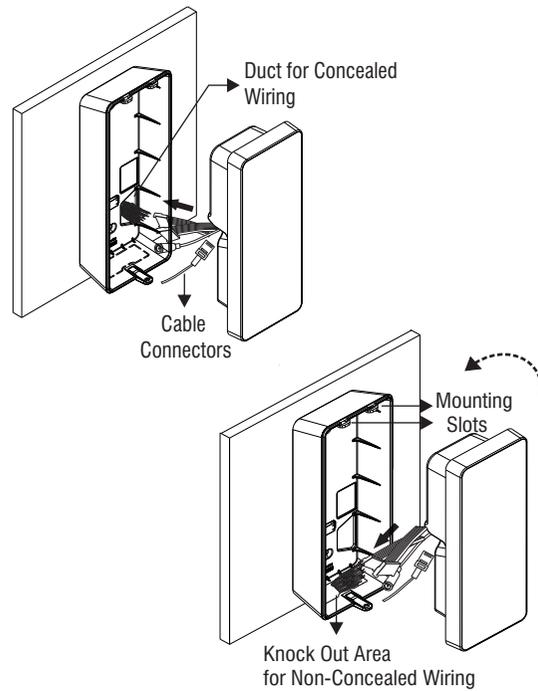
Step 1: Place the Wall Mounting plate and trace screw holes 1 and 2 on the wall where the device is to be installed.



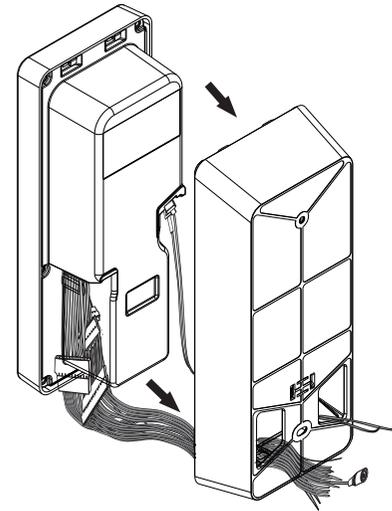
Step 2: Drill the screw holes along the traced markings. Fix Wall Mounting plate with the supplied screws. Tighten the screws with screw driver.



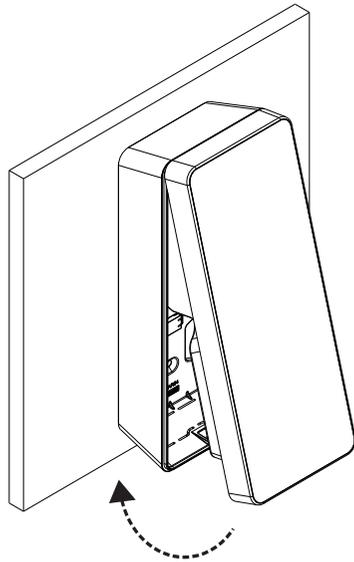
Step 3: Connect the cables of the ARGO unit and lead all the cables through the duct of the Wall Mounting plate into the electrical box recessed in the wall i.e. **concealed wiring** or through the bottom of the device in **non-concealed wiring**.



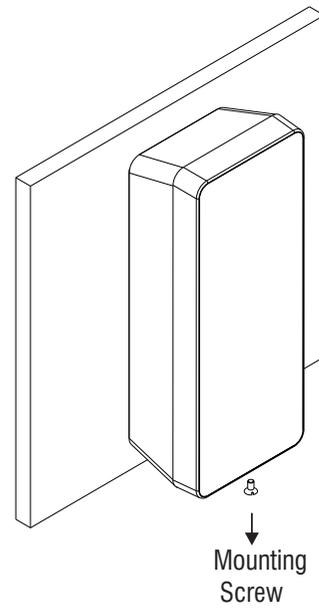
- Keep all the cables parallel to the side of the COSEC ARGO body in such a way that it should not cover the back portion of the unit as illustrated in figure below.
- Radially curve all the cables and lead it through the duct to fit the wall mounting plate easily with COSEC ARGO.



Step 4: Align COSEC ARGO on the mounting plate and hook it into the mounting slot. Press the bottom side inwards to lock it in place.



Step 5: Insert the mounting screw into the mounting screw hole at the bottom of the device. Tighten the screw to complete the Wall Mounting.



Installation Instruction: Flush Mounting

Step 1: Place the Flush Mounting Template on the desired installation surface.

- Mark the area along the dotted line and trace the four screw holes (say A,B,C,D) on the wall as shown in **Figure 7**.
- Now drill the dotted line area and four screw holes (say A,B,C,D) on the wall as illustrated in **Figure 8**.

Figure 7

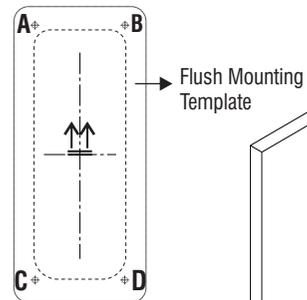
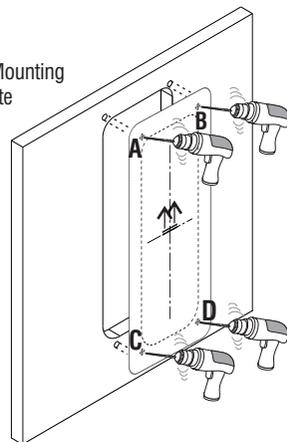
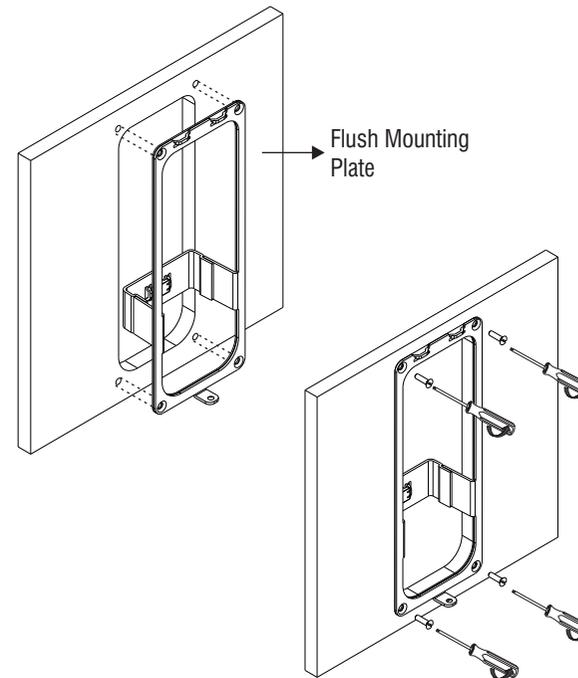


Figure 8

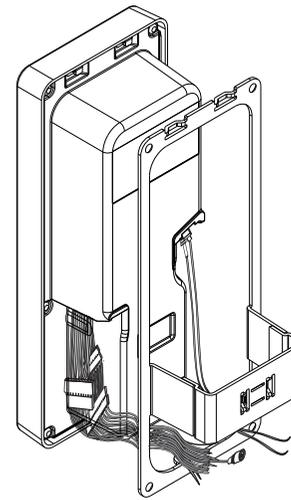
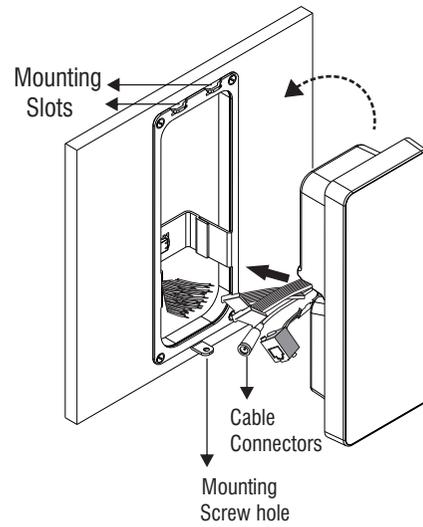


Step 2: Place and fix the Flush Mounting plate with the supplied screws. Tighten the screws with screw driver.

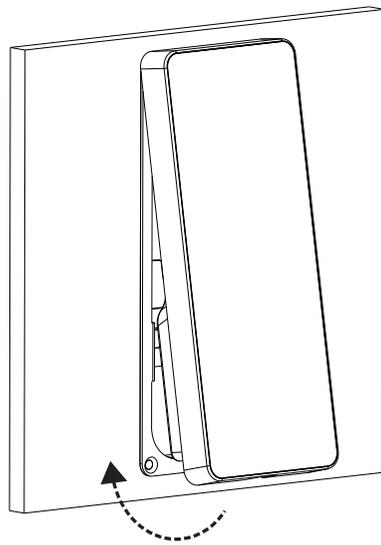


Step 3: Connect the cables of the ARGO unit and lead all the cables through the Flush Mounting plate into the electrical box recessed in the wall.

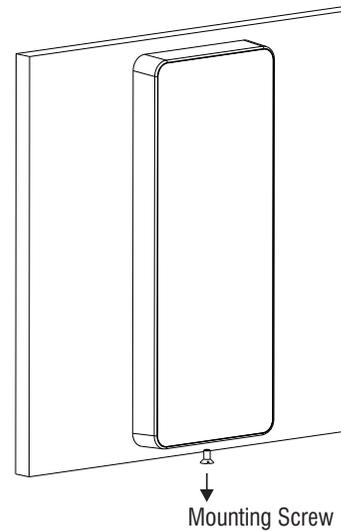
- Keep all the cables parallel to the side of the COSEC ARGO body in such a way that it should not cover the back portion of the unit as illustrated in the figure below.
- Radially curve all the cables and lead it through the duct to fit the flush mounting plate easily with COSEC ARGO.



Step 4: Align COSEC ARGO with the mounting plate and hook it into the mounting slot. Press the bottom side inwards to lock it in place.

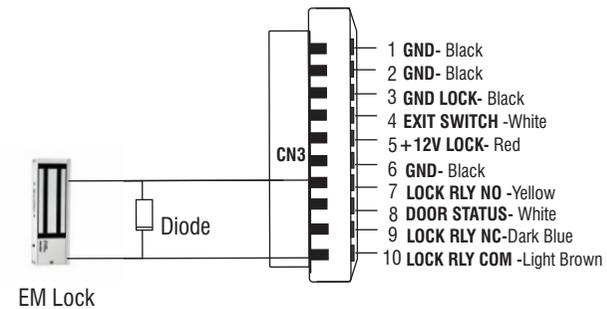
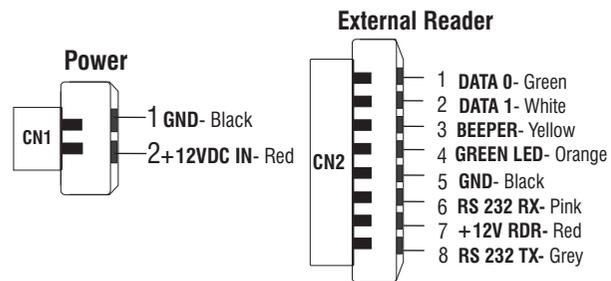
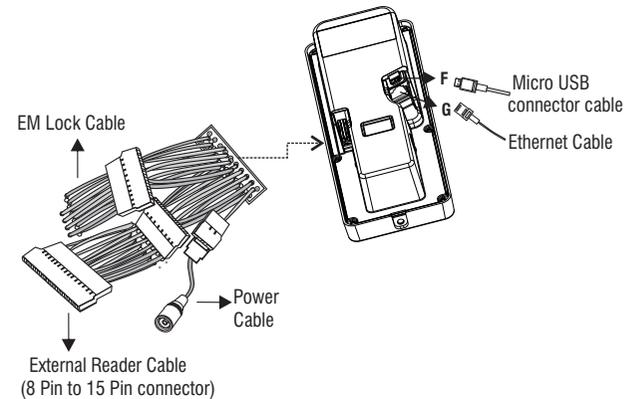


Step 5: Insert the mounting screw into the mounting screw hole at the bottom of the device. Tighten the screw to complete the Flush Mounting.

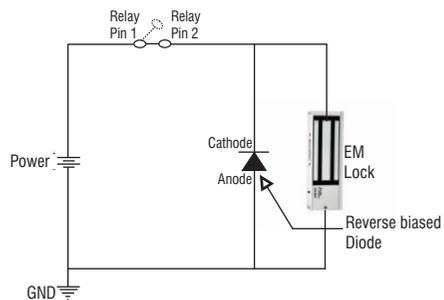


Connecting the Cables

- For Concealed wiring; first draw out sufficient length of the cables from the hole you have made on the mounting surface.
- Connect the Power, External Reader and EM Lock cable assemblies to the 20 PIN connector affixed on the back side of the ARGO Unit.
- Connect the Ethernet Cable to the LAN port.
- Connect the micro USB port to the Printer or Broadband dongle. If required, user a micro USB cable extender.



Diode Connection for Back EMF Protection



- Connect the Overswing diode in reverse biased condition parallel to the EM Lock for better lifetime contact and to protect the device from inductive kickback.

Assigning IP Address and Other Network Settings

- Open the Web browser in your computer.
- Enter the IP Address of the COSEC ARGO, default: **http://192.168.50.1** in the address bar of the browser and press the Enter key on your computer keyboard.
- The Login page appears.
- Select the User Name as **Admin**.
- You need set the password, hence enter the desired password in **New Password** and re-enter the same in **Confirm Password**.
- Click Login.

MATRIX ARGO Door	
User Name	Admin
New Password	
Confirm Password	
Login	

Technical Specification	
Event Buffer	5,00,000
Input Power	12V DC @2A and PoE
Reader Power Output	Max 12V DC @0.250 A
Reader Interface Type	RS 232 and Wiegand
Door Lock Relay	Max 30V DC @2A
Door Lock Power	Internal 12V DC @0.5A in PoE supply mode and 12V DC @1A in Adapter
Built In PoE	PoE (IEEE 802.3 af)
Display	3.5 inch Capacitive IPS touch screen with Gorilla glass 3.0; Resolution: 480x320 pixels (HVGA)
User Capacity	50,000
Communication Port	Ethernet and WiFi
Built In WiFi	Yes (IEEE 802.11 b/g/n)
Built In Bluetooth	Yes

Technical Specification	
Thermal Sensor	Yes
Operating Temperature	0 °C to +50 °C
Dimensions (H x W x D)	186mm x 74mm x 50mm (Wall Mount) 186mm x 74mm x 16mm (Flush Mount)
Weight	0.650 Kg (Product Only) 1.3 Kg (Product with Accessories)

Credential Support	
ARGO(FOE212/ FOM212/ FOI212)	Card, Pin and Finger
ARGO(CAE200/ CAM200/ CAI200)	Card, Pin and Face

RF Option(Card)		
ARGO FOE212/ CAE200	ARGO FOM212/ CAM200	ARGO FOI212/ CAI200
EM Prox	MIFARE® Desfire and NFC	HID I Class, HID Prox, EM Prox, Desfire, NFC & MIFARE®

FCC Compliance

This device complies with part 15 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.

Copyright

All rights reserved. No part of this document may be copied or reproduced in any form or by any means without the prior written consent of Matrix Comsec.

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 PVT LTD

Head Office

394-GIDC, Makarpura, Vadodara, Gujarat, 390010, India

Ph: (+91)1800-258-7747

Email: Support@MatrixComSec.com

Website: www.matrixaccesscontrol.com

V 2, December 2021