MATRIX CAE200 Cosec Argo Secure Door Controller Instruction Manual

**CAE200 Cosec Argo Secure Door Controller
Instruction Manual**

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:
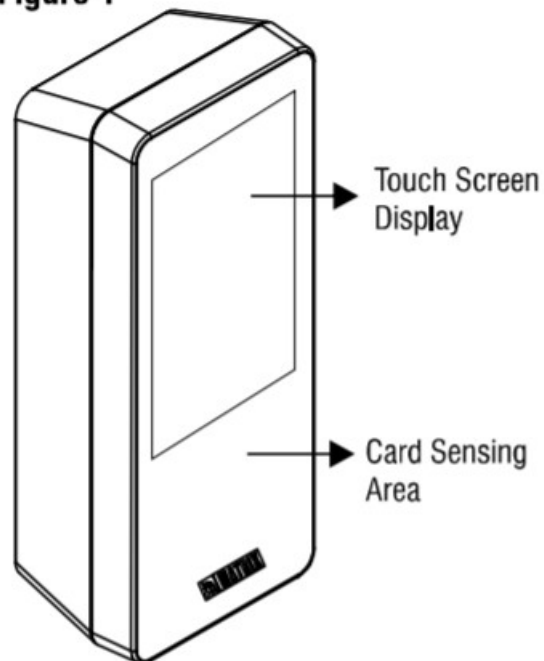
1. COSEC ARGO with variants FOE212, FOM212, and FOI212.

2. COSEC ARGO with variants CAE200, CAM200, and CAI200.
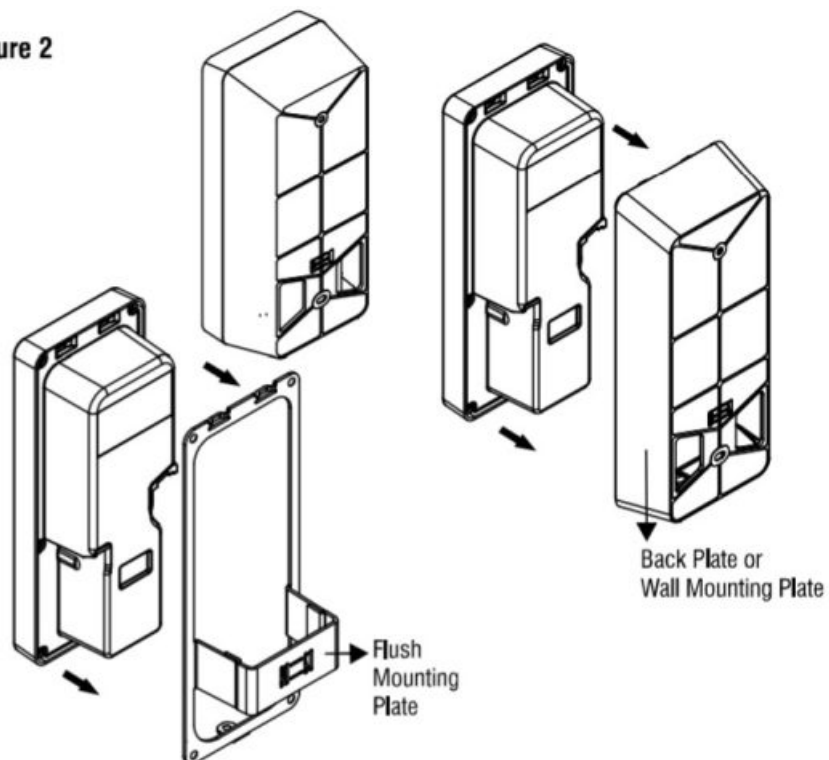
Front View
ARGO (FOE212/ FOM212/FOI212)
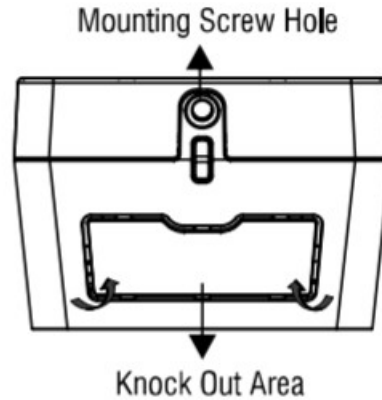ARGO (CAE200/ CAM200/CAI200)

Figure 1

Touch Screen Display

Card Sensing Area

Rear View (Common for both Series)

Figure 2

Flush Mounting Plate

Back Plate or Wall Mounting Plate

Bottom View (Common for both Series)

Figure 3

Mounting Screw Hole

Knock Out Area

Contents

Pre-Installation Safety Instruction

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


Figure 4
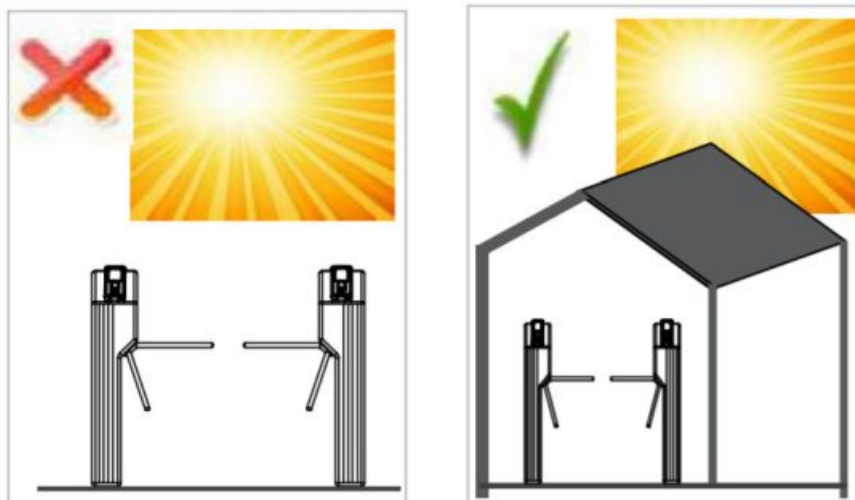
2. You can mount the device on a flat surface such as a wall or near the elevator, close to the access point (door) with surface wiring or concealed wiring as shown in Figure 6.

Figure 6

3. Recommended height from ground level is up to 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 the indoor installation or on the turnstile under the roof as shown in Figure 5.

Figure 5
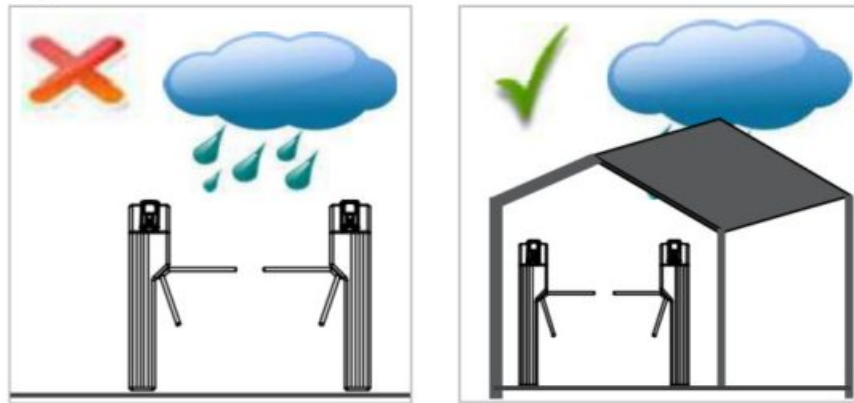
What your Package Contains

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 the below instructions.

- Remove the mounting screw from the mounting screw hole of the bottom of the device as shown in Figure 3. The screw will be required to fix the device after Wall Mounting or Flush Mounting.

- Slide the backplate downwards to unlock the device from the mounting hook and then remove it by pulling it outwards. This backplate is server is 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 the 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 a 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 the 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 the 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.
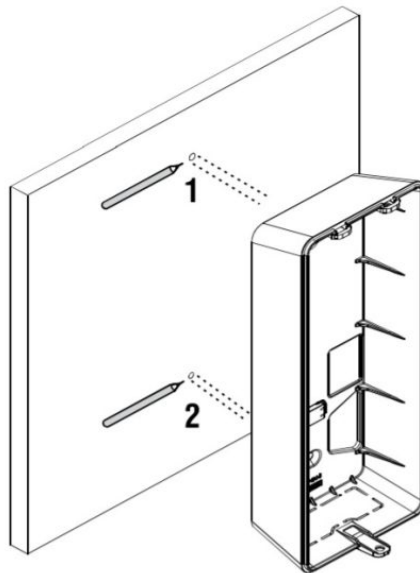

Step 2: Drill the screw holes along with the traced markings. Fix Wall Mounting plate with the supplied screws. Tighten the screws with a screw driver.
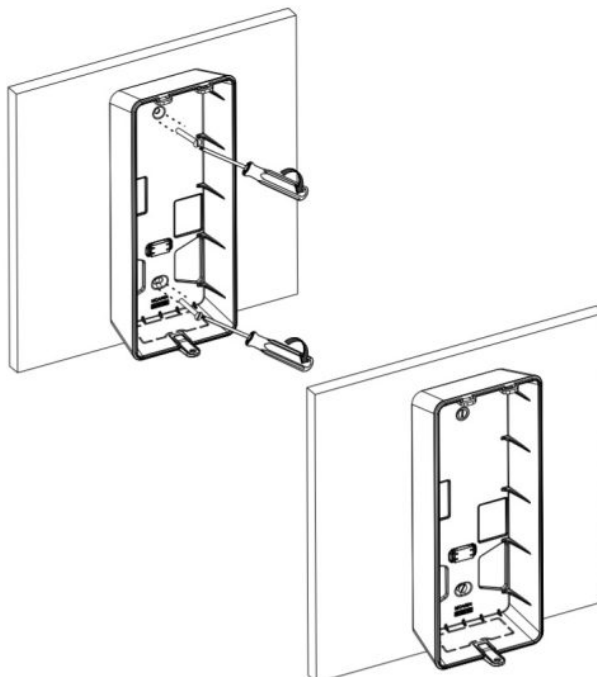
Step 3: Connect the cables of the ARGO unit and lead all the cables through the duct of the Wall Mounting plate into the electrical box recessed in the wall i.e. concealed wiring or through the bottom of the device in non-concealed wiring.

- 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 the figure below.
- Radially curve all the cables and lead them through the duct to fit the wall mounting plate easily with COSEC ARGO.
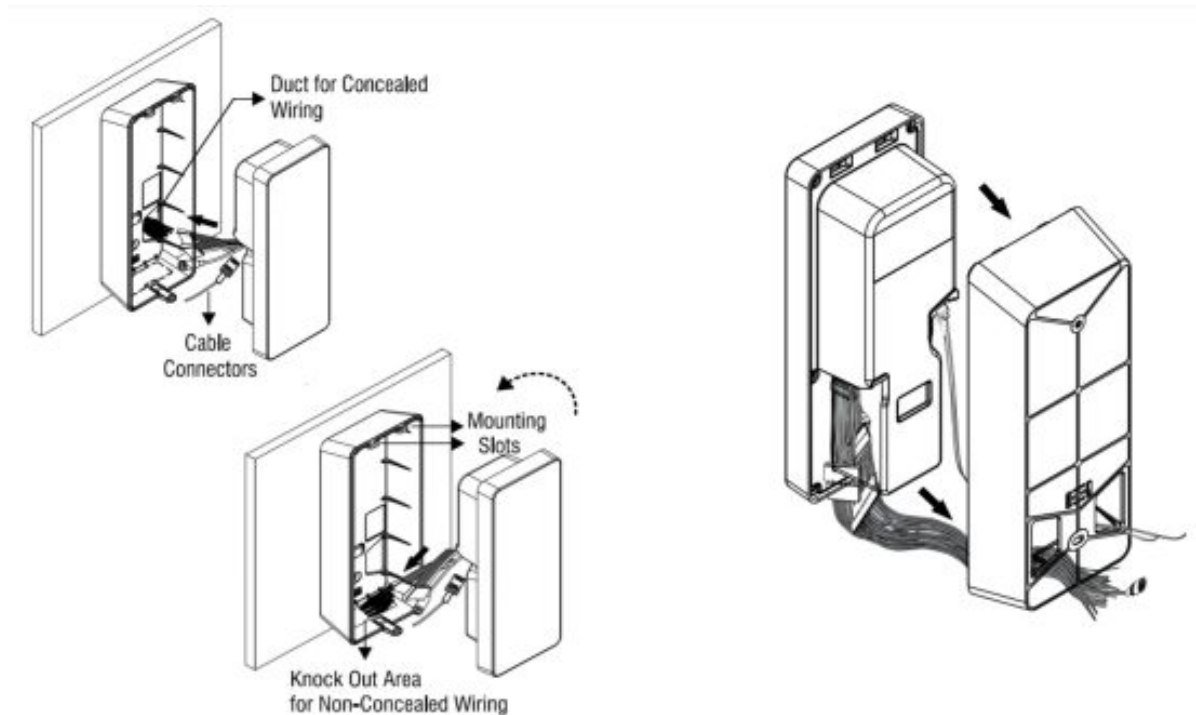
Step 4: Align COSEC ARGO on the mounting plate and hook it into the mounting slot. Press the bottom side inwards to lock it in place.
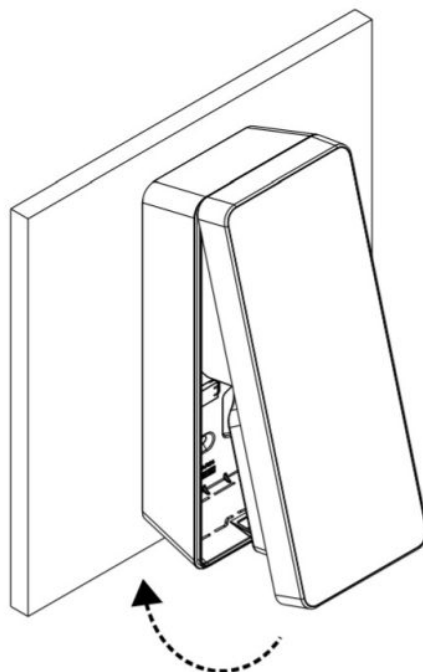
Step 5: Insert the mounting screw into the mounting screw hole at the bottom of the device. Tighten the screw to complete the Wall Mounting.
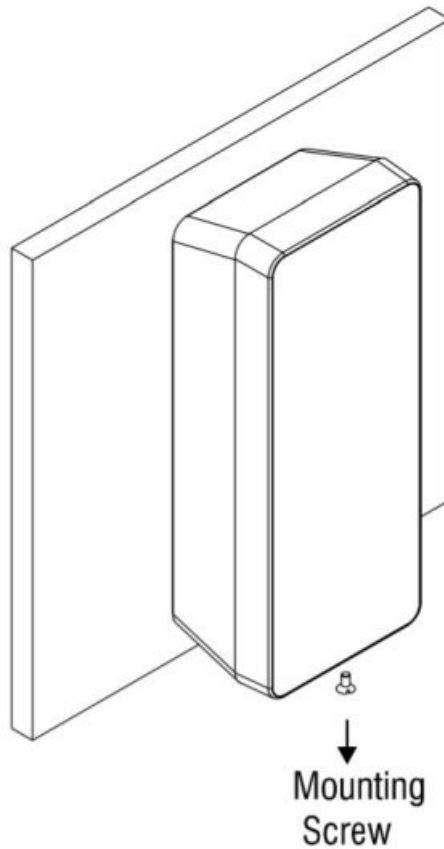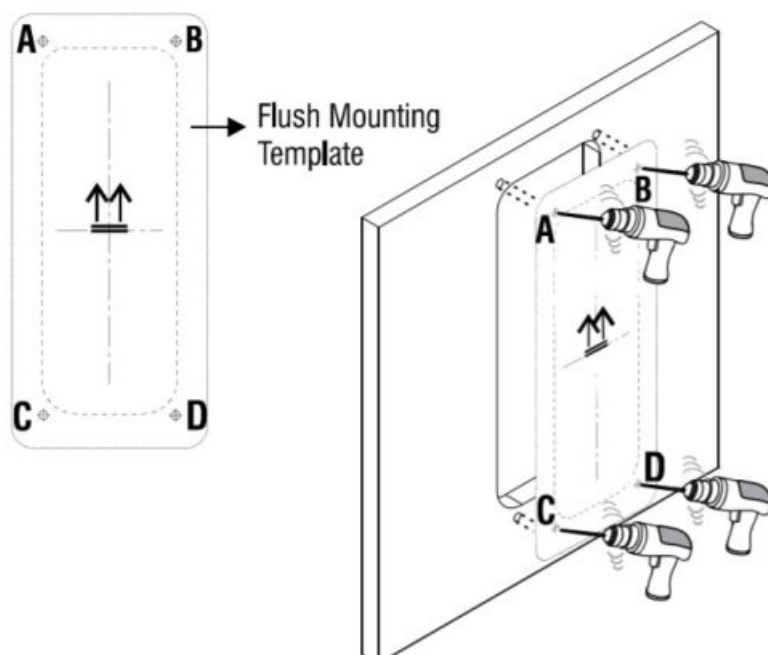
Mounting
Screw

Installation Instruction: Flush Mounting

Step 1: Place the Flush Mounting Template on the desired installation surface.
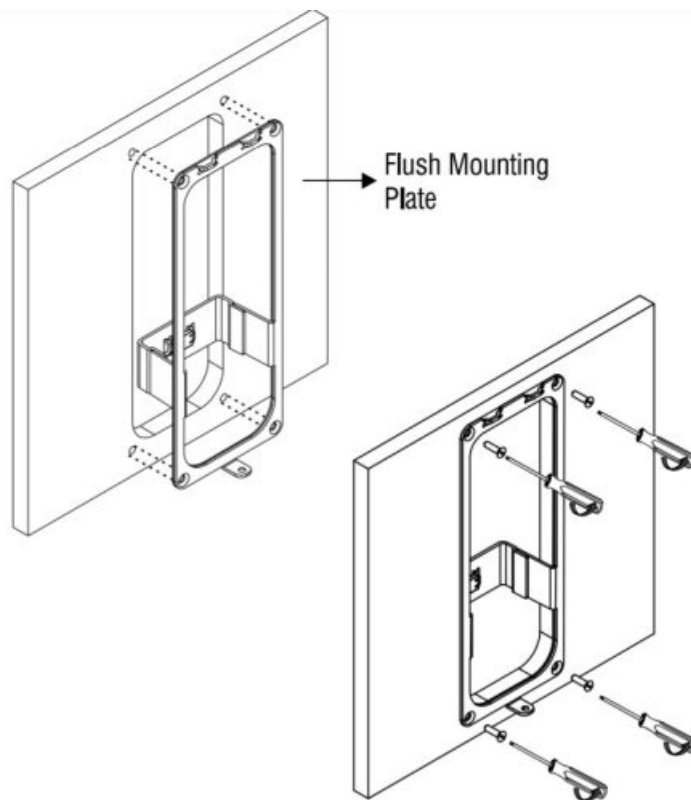
- Mark the area along the dotted line and trace the four screw holes (say A, B, C, D) on the wall as shown in Figure 7.
- Now drill the dotted line area and four screw holes (say A, B, C, D) on the wall as illustrated in Figure 8.
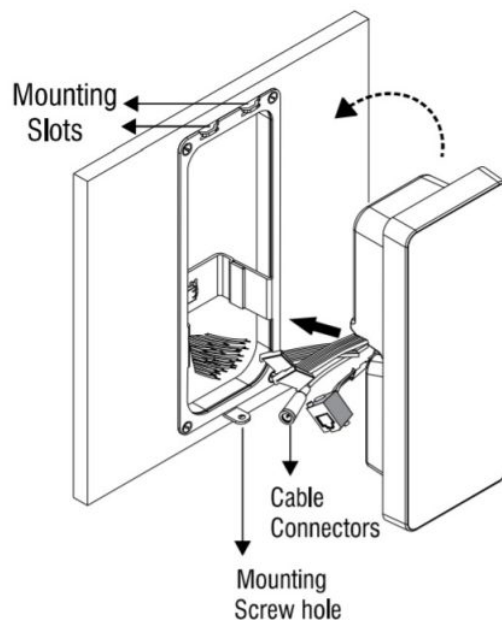
Figure 7

Flush Mounting
Template

Step 2: Place and fix the Flush Mounting plate with the supplied screws. Tighten the screws with a screwdriver.

Figure 8

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.
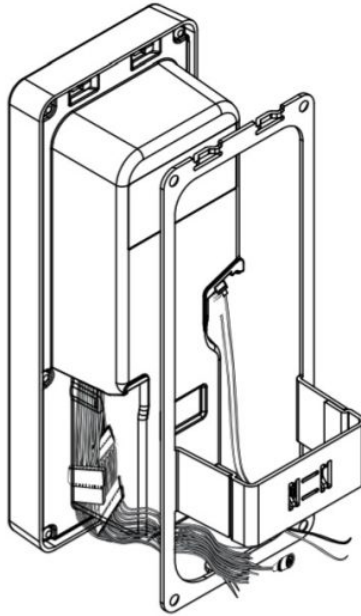
Step 4: Align COSEC ARGO with the mounting plate and hook it into the mounting slot. Press the bottom side inwards to lock it in place.
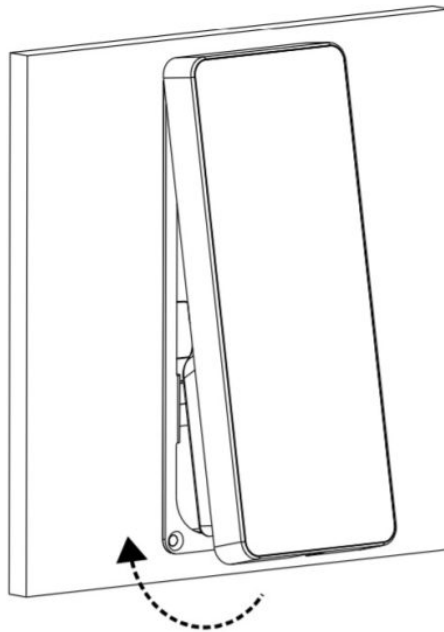
Step 5: Insert the mounting screw into the mounting screw hole at the bottom of the device. Tighten the screw to complete the Flush Mounting.

Mounting Screw

Connecting the Cables

EM Lock Cable

Micro USB connector cable

Ethernet Cable

F

G

External Reader Cable
(8 Pin to 15 Pin connector)

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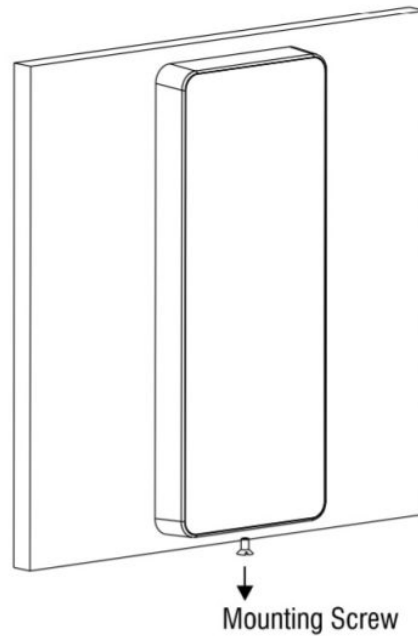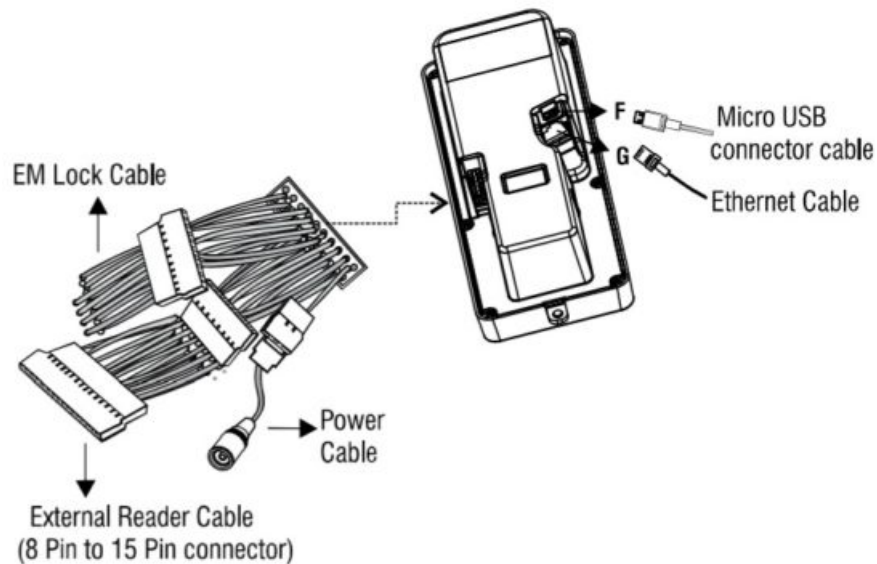
- For Concealed wiring; first, draw out a sufficient length of the cables from the hole you have made on the mounting surface.
- Connect the Power. External Reader and EM Lock cable assemblies to the 20 PIN connector affixed on the backside of the ARGO Unit.
- Connect the Ethernet Cable to the LAN port.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

Power
CN1
- 1 GND- Black
- 2 +12VDC IN- Red

External Reader
CN2
- 1 DATA 0- Green
- 2 DATA 1- White
- 3 BEEPER- Yellow
- 4 GREEN LED- Orange
- 5 GND- Black
- 6 RS 232 RX- Pink
- 7 +12V RDR- Red
- 8 RS 232 TX- Grey

CN3
- 1 GND- Black
- 2 GND- Black
- 3 GND LOCK- Black
- 4 EXIT SWITCH -White
- 5 +12V LOCK- Red
- 6 GND- Black
- 7 LOCK RLY NO -Yellow
- 8 DOOR STATUS- White
- 9 LOCK RLY NC-Dark Blue
- 10 LOCK RLY COM -Light Brown
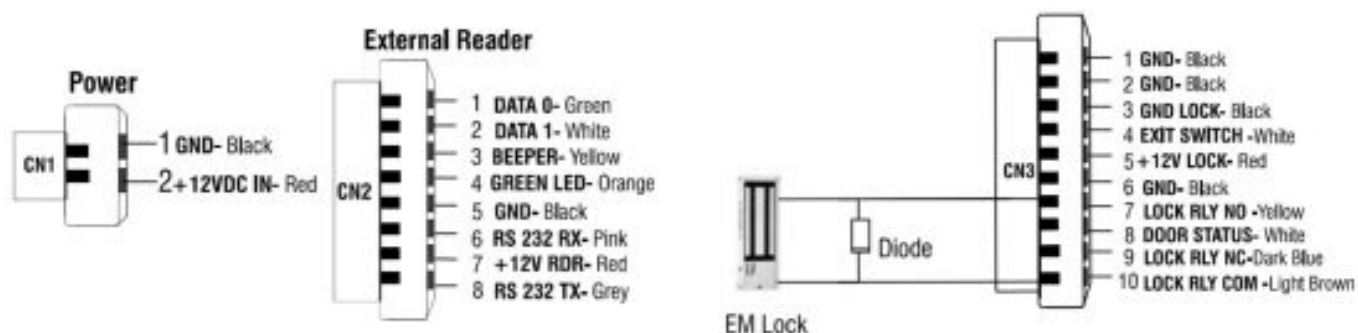
EM Lock — Diode

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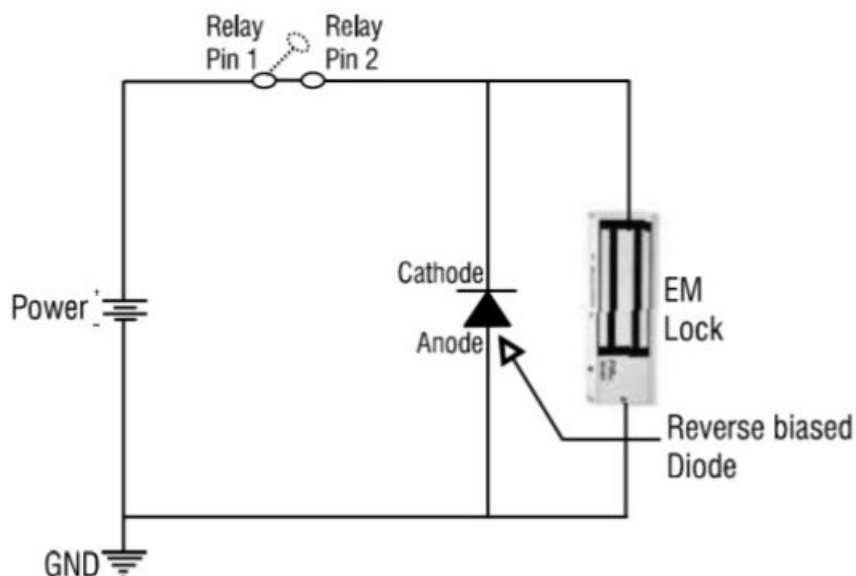
- Connect the Overswing diode in reverse biased condition parallel to the EM Lock for better lifetime contact and to protect the device from inductive kickback.

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.
- When prompted, enter the login credentials for the Door.

Default Username: Admin
Default Password: 1234

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: 480×320 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(F0E212/ F0M212/ F01212)	Pin and Card
ARGO(CAE200/ CAM200/ CAI200)	Pin and Card

RF Option(Card)		
ARGO F0E212/ CAE200	**ARGO F0M212/ CAM200**	**ARGO F01212/ CAI200**
EM Prox	MIFARE° Desfire and NFC	HID I Class, HID Prox, EM Prox, Desfire, NFC & M1FARE°

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.

Product	Compliance
ARGO(FOE212/ FOM212/ FOl212)	CE RoHS COMPLIANT FCC
ARGO(CAE200/ CAM20O/ CAl200)	No

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

Warning

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Warranty

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

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Documents / Resources

	MATRIX CAE200 Cosec Argo Secure Door Controller [pdf] Instruction Manual COSECARGO02, 2ADHNCOSECARGO02, COSECARGO01, 2ADHNCOSECARGO01, CAM200, CA200, FOE212, FOM212, FOI212, CAE200 Cosec Argo Secure Door Controller, Cosec Argo Secure Door Controller

Manuals+,