

COSEC PANEL200P

Quick Start



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Please read this guide first for correct installation and retain it for future reference. The information in this guide is prevailing 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

Complete warranty statement is available on our website:
<https://www.matrixcomsec.com/warranty/>

Know your PANEL200P

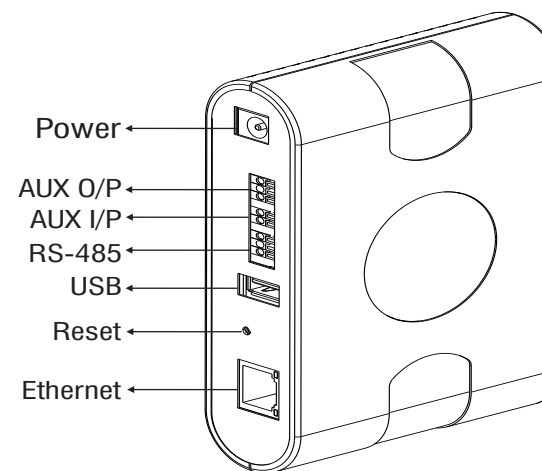


Figure1

The COSEC PANEL200P communicates with COSEC Server via TCP/IP network connection.

The completely distributed database of COSEC PANEL200P enables it to operate independently. All information regarding cards, time zones, relay control and alarm points are loaded into its memory.

The COSEC PANEL200P connects to the COSEC Door controllers via RS485 loop or TCP/IP network. The COSEC PANEL200P is designed to operate off-line, making access control decisions independent.

Why you need PANEL200P

The Special Access Control features with infallible operation are provided by COSEC PANEL200P. Few features are listed below:

- Man Trap
- Dead Man Zone
- Time based Access
- Shift based Access
- Panel Route Access
- DND Zone
- IO linking

Note: To know more about all the features, refer to the Matrix COSEC PANEL200 System Manual.

What Your Package Contains

- COSEC PANEL200P
- Power Adapter
- Screws and Screw grips

Note: For the Mounting Template, refer to page 17 in the Quick Start.

Things You Will Need

- A Wire Stripper
- A Screw Driver Set
- Insulation Tape
- Access to the COSEC Server/Third Party Server
- A Stand-alone Computer with a Web Browser to change the Network Settings of the PANEL200P

Prepare For Installation

- Unpack the PANEL200P and check your package contents.
- Select a suitable location for **Wall Mounting**. Make sure the surface is flat. You can also **Table Mount** it.
- Read the relevant sections on mounting and connecting the PANEL200P (recommended) before proceeding with installation.

WARNING

- Installation and Servicing should be done only by a qualified technician.
 - Make sure the PANEL200P is at a minimum distance of 2m from high voltage equipment or wiring.
-

Mounting the PANEL200P



SAFETY INSTRUCTIONS

Do not install the device:

- On unstable surfaces.
- Where ferromagnetic field or noise is induced.
- Where static is created, such as desks made of plastic, carpets.
- Near volatile inflammable materials or inflammable goods such as drapes.
- Where volatile gas and/or inflammable gas is created.

- Drill holes as per the size of the screws provided and at the distance as per Figure 1.
- Insert the screw grips in the holes you drilled.
- Drive the screws into the wall. Leave the screw heads protruding slightly (2 to 4 mm gap from the wall), enough for the keyhole slot of the PANEL to engage. Refer Figure 2.
- Hold the product against the wall, aligning the larger openings of the keyhole slots with the screw heads. Slide the product downward or sideways (depending on slot orientation) until the screws sit securely in the narrow part of the keyhole slots.

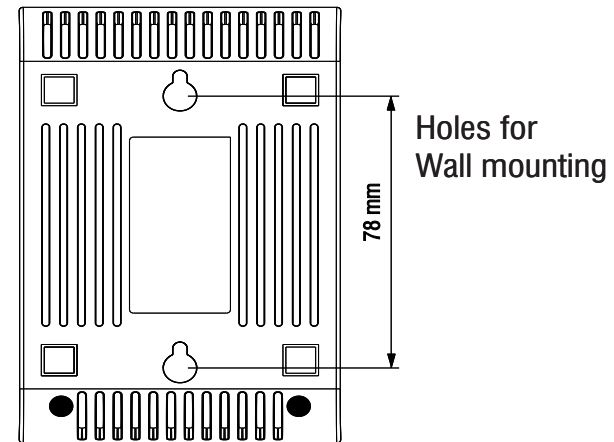


Figure 1

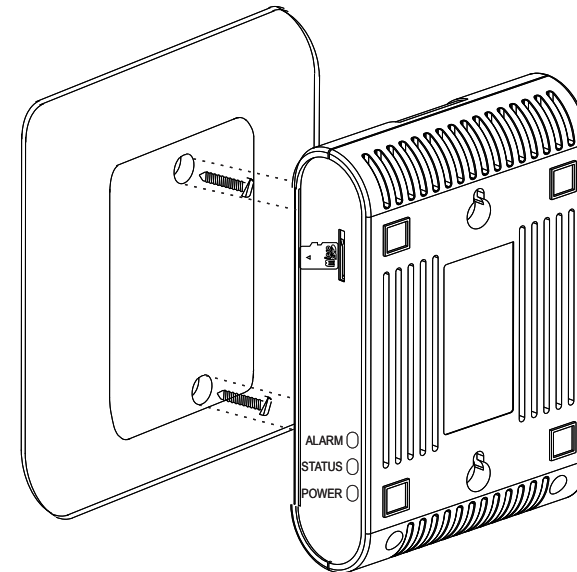


Figure 2

Connecting Interfaces with PANEL200P

Connecting wires to AUX O/P /AUX I/P /RS-485 Ports

- Push back the orange lever of the connector of appropriate port, using a blunt pin or a small flat screw driver.
- Insert the stripped end of the wire into the opening of the connector.
- Release pressure on the levers. The wire will be held in place by spring clamp action.

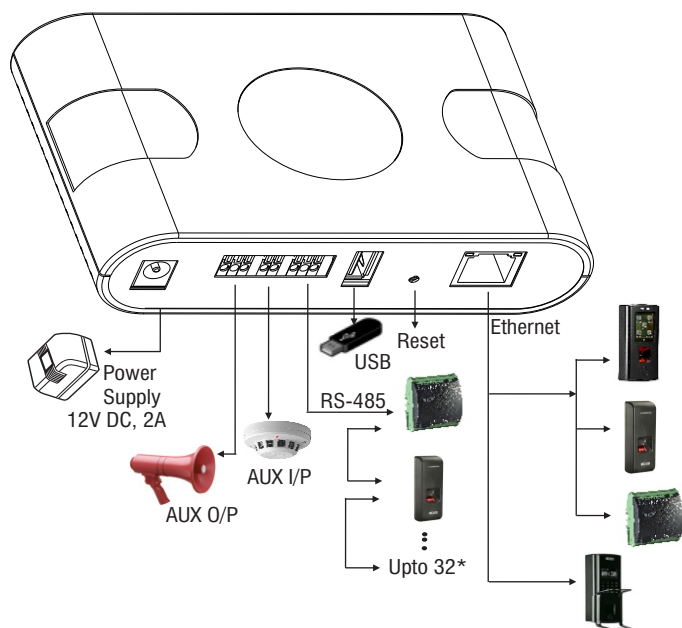


Figure 3

Note: Maximum 255 doors can be connected with the PANEL200, using either Ethernet or RS-485 or both.

Connecting Doors

- Using RS-485, you can connect upto 32 devices in a loop. Refer Figure 4.
- Using Ethernet, you can connect upto 255 devices through the Ethernet switch.

Connecting Auxiliary Input

- You can connect a sensor for detecting alarms. For this, connect the Auxiliary Input Port.
- Connect the wire pair from the sensor device to the Auxiliary Input Port.

Connecting Auxiliary Output

- The Auxiliary Output port can be used for activating alarm devices like hooter; energize some devices; control annunciation devices.
- Connect the wires from the alarm devices to the Auxiliary Output Port.

USB

The USB port can be used for connecting Wi-fi Dongle or Mobile Broadband Dongle. It is used to download events directly from PANEL200P to USB memory.

Reset

The Reset pin can be used to set the Password and Network settings of the PANEL200P to default.

SD Card

The SD card is used for the storage of internal processing data.

COSEC PANEL200P and DOOR RS-485 Communication Looping Diagram

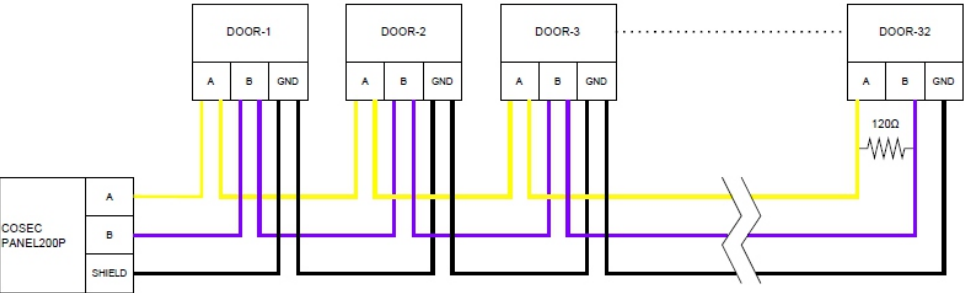


Figure 4

Powering On the Device

Apply 12V DC,2A power supply to the COSEC PANEL200P and wait for the reboot cycle to complete. At the time of device start up, that is, Bootloader state, the Power LED will glow in constant Red color.

The PANEL200P has 3 LEDs - **ALARM**, **STATUS** and **POWER**. Refer to the table below for details.

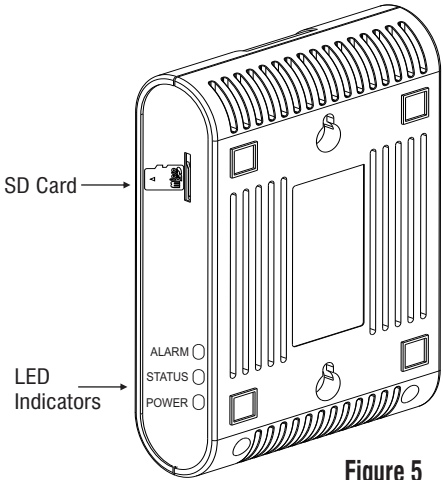


Figure 5

LED Status Indicators

Device State	Power LED	Status LED	Alarm LED
Power ON Sequence	Red ON	Orange blinking	Red blinking
Idle-Online (when online with Server)	Red ON	Green blinking	-
Idle-Offline	Red ON	Red blinking	-
Idle-Network Fault/Link fail	Red ON	Orange blinking	-
Critical Alarm	-	-	Glows in Red till Reset
Minor and Major Alarm	-	-	Red blinking

Configuring Network Settings

The COSEC PANEL200P can be connected to the network over Ethernet.

Connect the Ethernet cable to the Ethernet Port (RJ-45) and Power ON the PANEL200P.

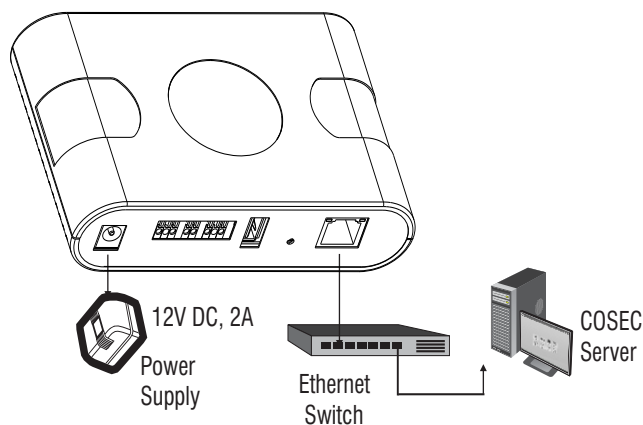


Figure 6

To configure network parameters of the COSEC PANEL200P, follow the steps given below:

- The COSEC PANEL200P is pre-configured with a default IP address **192.168.50.1** and Subnet Mask **255.255.255.0**
- Open a Web browser on your computer.
- Enter the IP Address of the PANEL200P(default: 192.168.50.1), in the address bar of the browser and press the Enter key on your computer keyboard.

The login screen displays the 'MATRIX COSEC PANEL200' header. It features a username field with 'admin' entered, a password field with four asterisks, and a 'Login' button at the bottom.

The 'Set Panel Door Password for Admin' screen shows two password input fields, each with four asterisks, and a 'Set' button at the bottom.

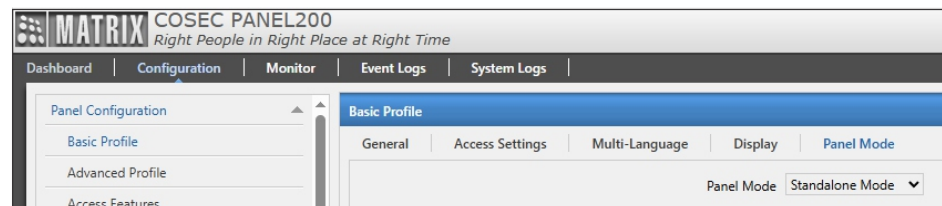
- Enter the login credentials of the PANEL200P. Default Username: **admin**; User defined Password . Click **Login**.
- Similarly, you need to set the Password for the Panel Door. Click **Set**.
- Now, you are logged into the PANEL200P web page. By default, the PANEL200P is in the Server Mode.

Note: The IP Address of PANEL200P can be changed if required. Ask your network administrator for an IP Address. Also ask your network administrator, if you will need to change the Subnet Mask, or configure the Gateway IP Address and DNS.

PANEL200P in Standalone Mode

From the web page of PANEL200P,

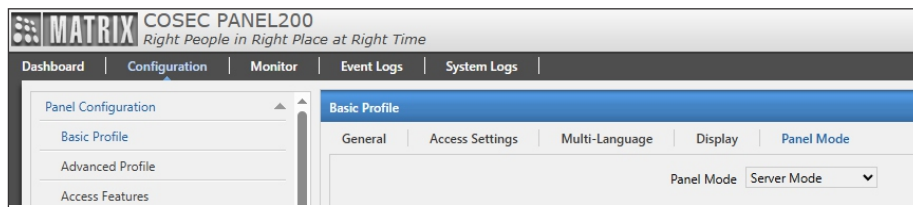
- Click **Configuration > Panel Configuration**.
- Click **Basic Profile** and click the **Panel Mode** tab.
- Select the **Standalone Mode** option. Save the configuration. The PANEL200P will reboot.



- Enter the login credentials of the PANEL200P. Default Username: **admin**; User defined Password. Click **Login**.
- Similarly, you need to set the Password for the Panel Door. Click **Set**.
- Now, you are logged into the PANEL200P web page. The PANEL200P is now in the Standalone Mode.

PANEL200P in COSEC - Server Mode

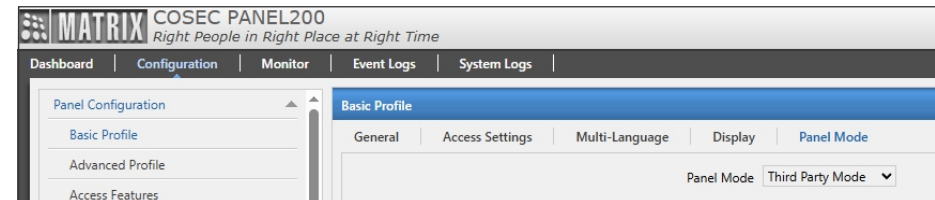
If you want the PANEL200P to work in Server Mode then select Server Mode as the Panel mode option. Save the configuration and the PANEL200P will reboot.



- Then re-login into the PANEL200P.
- Click **Configuration > Panel Configuration**. Click **Server Settings**.
- Select the Network interface through which you want to connect with the Server.
- Enter the **IP Address** or **Host Name** of the PC where COSEC Server is installed.
- Test the connection by specifying the URL of the Server.
- The connected PANEL200P will display status as Online.

PANEL200P in Third Party - Server Mode

If you want to integrate the PANEL200P with Third Party - Server then select Server Mode as the Third Party Mode. Save the configuration and the PANEL200P will reboot.



- Then re-login into the PANEL200P.
- Click **Configuration > Panel Configuration**. Click **Server Settings**.
- Select the Network interface through which you want to connect with the Server. For details, refer to the Matrix COSEC PANEL200 System Manual.

Adding PANEL200P in COSEC Server

To use the PANEL200P with COSEC Server application, you must add the PANEL200P in COSEC Server. To do so,

- Open the COSEC Server application on a browser.
- Click **Devices** > **Device List** > Click the **New**  icon.
- In the **Select Device Type To Be Added** window, select PANEL200.
- Click the **Continue**. The **Device Configuration** window appears.

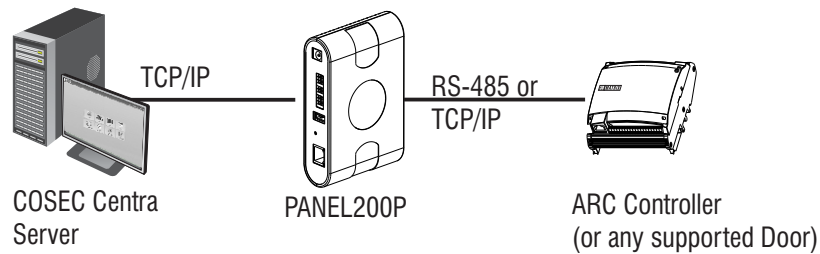
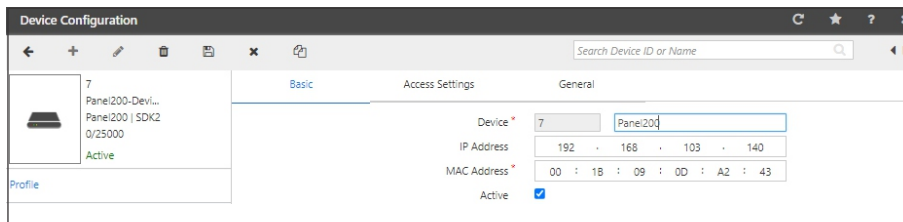
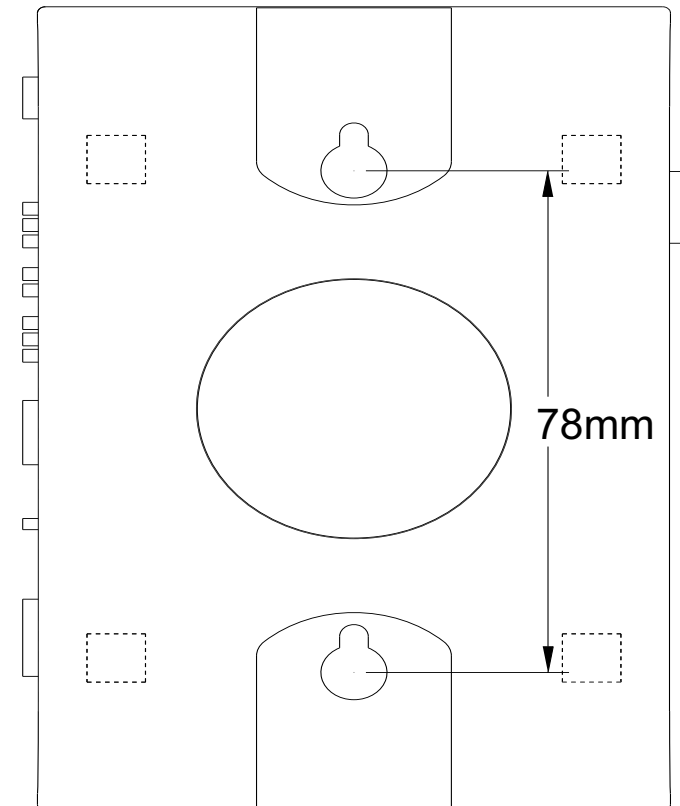


Figure 7



- Click **Profile** > **Basic**.
- Enter the **Name** and **MAC Address** of the COSEC PANEL200P.
- Click **Save**.
- After you have added it successfully, the PANEL200P will be online.

Wall Mounting Template*



For reference only.

Technical Specifications

Specification Parameter	COSEC PANEL200P
General	
Maximum Doors	255
Doors on Ethernet	255
Doors on RS-485	32
User Capacity	25000
Event Buffer	5,00,000
Communication	Ethernet / RS-485 / Bluetooth / Wi-Fi
Mode of Operation	Standalone: Provides a built-in GUI to control Matrix Door Controllers and Users COSEC - Server: Used for feature and capacity enhancement for Access Control and connected with COSEC Centra Server Third Party - Server: Integrates PANEL200P with Third Party -Server to access its features from their unified software
AUX-IN Port	One
AUX-Out Port	Form C & SPDT Relay output, max 2A@24 VDC
Input Power	External Power Adapter 12VDC @ 2A
LED Indicators	Three
Physical	
Dimensions (WxHxD)	125.25mm X 81.5mm X 30.5mm
Weight	0.140 Kgs (approx.)
Environmental	
Operating Temperature	-10° to +55°C
Humidity Range	5% to 95 % RH Non-Condensing

RF Module Specifications

Model Name			WL1837MODGI
Brand name			Texas Instrument
EUT Type			Dual band WiFi and Bluetooth 5.1 module
Wireless Technology and Frequency Range			WLAN 2.4 GHz Band :2412MHz ~ 2484 MHz WLAN 5 GHz Band :4910MHz ~ 5825MHz Bluetooth : 2402~2480MHz
Rated Power (EIRP)			<20dBm
Mode			802.11 a/b/g/n HT20/HT40 Bluetooth BR, EDR, LE
Compliance	RED (2014/53/EU)	SAFETY	EN IEC 62368-1:2020+A11:2020 EN IEC 62311:2020
		EMC	ETSI EN 301 489-1 V2.2.3(2019-11) ETSI EN 301 489-3 V2.3.2(2023-01) ETSI EN 301 489-17 V3.2.4(2020-09) EN 55032:2015+A1:2020 EN 55035:2017+A11:2020 EN 61000-3-3:2013+A2:2021
		RADIO	ETSI EN 300 328 V2.2.2(2019-07) ETSI EN 301 893 V2.1.1(2017-05) ETSI EN 300 440 V2.2.1(2018-07)
	RoHS(2011/65/EU)	(RoHS2)	EN IEC 63000:2018

Certifications



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, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

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.



MATRIX COMSEC PVT. LTD.

Head Office

394-GIDC, Makarpura, Vadodara - 390010, India

Ph: (+91)1800-258-7747

Email: Tech.Support@MatrixComSec.com

www.MatrixComSec.com