

MAP1 Controller

INSTALLATION MANUAL



September 2024

FC CE
ICES-003

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Introduction

Cansec Systems' MAP1 (Modular Access Panel) incorporates a mini-computer called the Panel Logic Module (PLM) utilizing Ethernet connectivity and an Input Output Module (IOM) which incorporates a 32-bit processor in this new architecture. This allows for a fast, high capacity access control system with a lower cost per reader/door system implementation. The MAP1 architecture has the ability to flash applications and firmware updates into the control panel using the Ethernet connection.

The standard MAP1 is provisioned with the default 2-door configuration. There are two modes, **First Access On-Premises**, **First Access Cloud**. Door configuration and mode can be upgraded. However, only one mode can be run at a time and data cannot be shared between modes. The availability of the general-purpose Input and Output points depends on the number of doors provisioned for the controller.

The MAP1 allows for 100,000 individual cardholders, using raw Wiegand data up to 64 bits per card ID. This allows the use of many proprietary Wiegand cards without the need for data conversion. The readers can be Cansec's CanProx One Proximity Readers (AWID or HID card technology) or one of many other popular Wiegand readers.



Key Features

- 255 Access Schedules
- On board Triggers independent of host connection
- Supports 100,000 individual user card IDs
- Supports any Wiegand card (64 bit max.)
- Supports up to 4 readers/door combinations
- Supports Door Contact and RTE connection per reader/door
- Supports general-purpose Input points (with or without supervision) and general-purpose Output points
- Ease of future software/firmware upgrades
- **First Access On-Premises** mode, **First Access Cloud** mode

Note: Must have latest *approved PLM and IOM firmware version for compatibility to this document.*

Specifications

See power supply notes in Appendix section for more information.

Controller Power Requirement

Max. Current (including 4 proximity readers with 100 mA each) 12VDC/1A

Temperature Range

Operating..... 0° C to 60° C

Relative Humidity

Operating 20% to 80%

Auto Resettable Fuses

MAP1 Main 12V DC.....1 A

Each Reader Pair 1 A

Output Relays

All Relays (8 per panel) Form ‘C’SPDT 6 A @ 30 VDC

Inputs per Provisioned Doors (Supervised or Non-Supervised)

Door Contact (2 per MAP1)Requires normally closed contact
(On/Off door switch)

Exit Button (2 per MAP1)Requires normally open contact
(Momentary push button switch)

Reader Cable

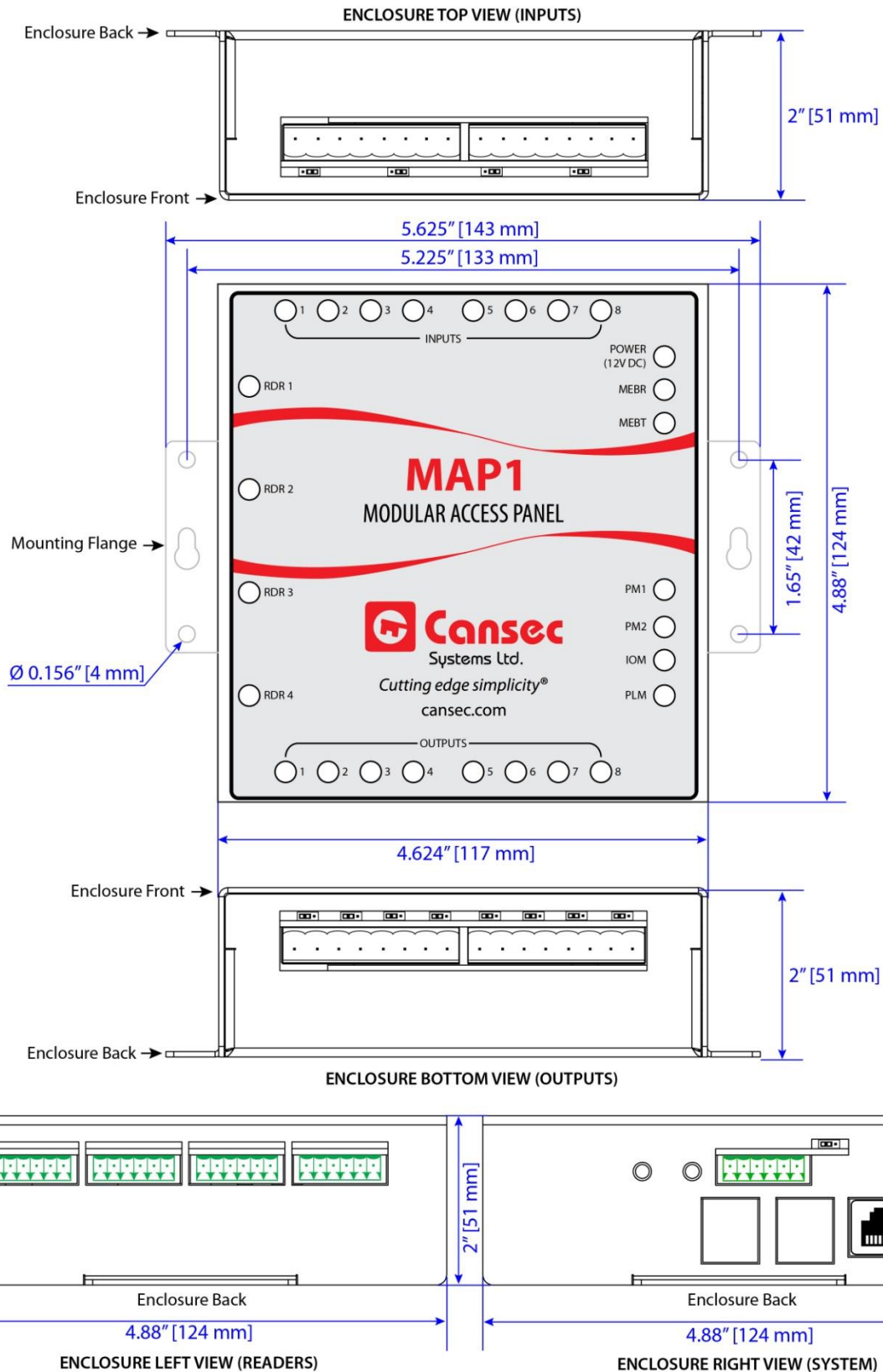
Wiegand Readers..... 6 conductor (twisted pair not required)
22 AWG, overall shield
152 m [500 ft] max. Length

NOTE: Consult reader specifications as 18-gauge wire may be required for power

Dimensions & Weight

MAP1 Enclosure4.6” (W) x 4.9” (H) x 2.0” (D)
[11.7 cm (W) x 12.4 cm (H) x 5.1 cm D)]

Enclosure plus Controller Weight..... 500 g [17.6 oz]



Note: Specifications subject to change without notice.

NOTE: Tech Support will only be provided where product installation guidelines have been followed.

Specification Notes

CAUTION: EMERGENCY LOCKDOWN

Emergency lockdown functions must operate totally independent of the access control system and must **not** rely on operation of card readers, access control panels, communications networks, communications devices or host software. Cansec accepts no responsibility for direct or consequential damages resulting from the failure of emergency lockdown functions which are dependant in any way on the operation of card readers, access control panels, communications networks, communications devices or host software.

Wiring Note:

Improper Wiegand cable (new or originally installed cable or missing **required** shield connections) may result in high frequency noise on the data lines creating misreads. This Wiegand misread issue is more evident on longer Wiegand reader cables. The reader cable may have to be replaced with the correct type of Wiegand reader cable to improve system reliability.

MAP1 and H1000 Connector Compatibility:

H1000 connectors can be used on the MAP1 controller. The wiring will have to be adjusted to accommodate for the reversed connector insertion.

MAP1 Controller Layout

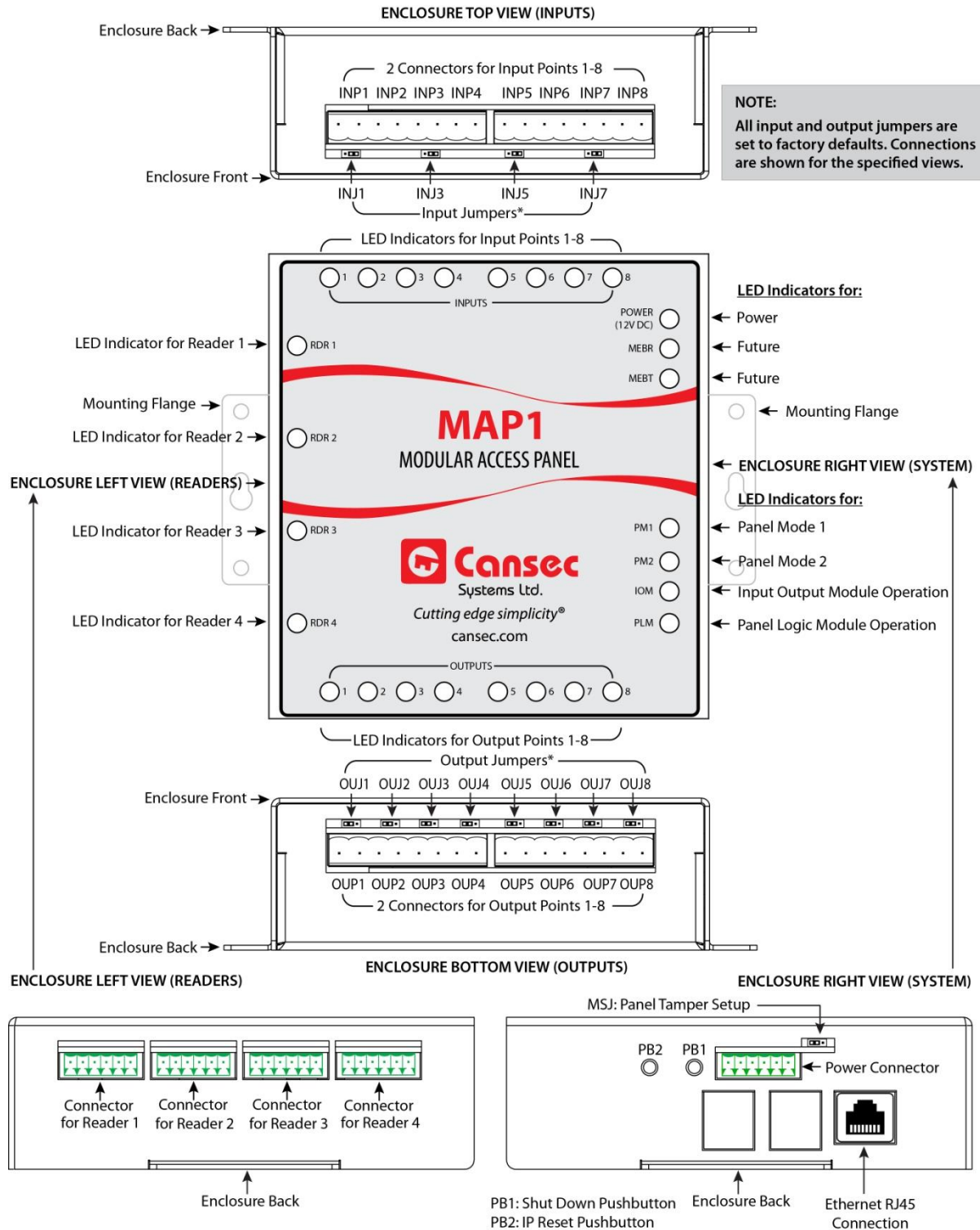


Figure 1

Important Installation Notes

Controller Provisioning Options:

The MAP1 controller is provisioned with the default 2-door configuration. However, the door configuration can be upgraded. The MAP1 can run only in one mode either **First Access On-Premises** or **First Access Cloud**.

Door configurations are as follow:

1. **Door controller with or without general-purpose input and output points**
 - a. 2-door configuration: 2 lock relays, 2 multi-function relays, 2 REX/RTE, 2 door contacts/DPS, 4 general-purpose input points and 4 general-purpose output points.
 - OR**
 - b. 4-door configuration: 4 lock relays, 4 multi-function relays, 4 REX/RTE, 4 door contacts/DPS, 0 general-purpose input point and 0 general-purpose output point.
2. **Input and Output controller only:** 8 general-purpose input points and 8 general-purpose output points available. No door combination i.e. no lock relays and no multi-function relays.

Electrical Information:

1. The MAP1 utilizes a mini-computer and **must be operated using a battery backed up power supply** to protect the hardware, system files and data files from corruption due to power outage. *See Note 1 in Appendix section.*
2. **CAUTION:** Do not unplug the MAP1 Power connector if the system is in operation as data corruption may occur on the MAP1 mini-computer. Please follow the instructions from the section “PB1 - Shut Down”.

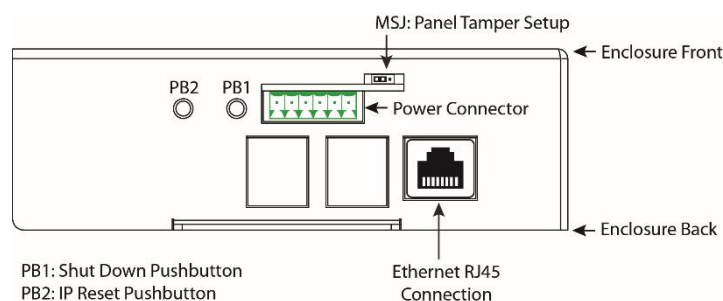


Figure 2

3. The MAP1 allows for the control of up to 4 door combinations. Ensure that adequate 12V DC power and current is available, especially when the same power supply is used for the locks.
4. It is highly recommended to use a separate power supply for locks as they require a high amount of current for proper operation.

Network Information:

1. The MAP1 Controller is set to acquire an IP address automatically (**DHCP**). However, it can be optionally set to a static IP address or reset if necessary. See *Appendix section for more information*.

Mechanical Information:

1. The MAP1 has 2 horizontal mounting flanges, which should be used to attach the product to a stable surface.
2. If required the MAP1 may be mounted inside of a lockable enclosure such as the CA-SLBOX or CA-H1000ENCL if access is to be limited to the external connections.
3. If a Lockable external enclosure is used and a Tamper switch is available as in the CA-SLBOX or CA-H1000ENCL, the MAP1 has a Panel Tamper input connection available. Connecting the Tamper switch, See *figure 14*, to this input will produce an Alarm when opening and closing the enclosure. This Alarm is sent to the Host computer.

Power Issue Indicator:

The controller continuously monitors the main 12 VDC coming into the controller. In an error condition the onboard beeper sound will be as follow:

- Low DC voltage (9 volts or less): 4 one-second beeps then a 2-second pause
- High DC voltage (16 volts or higher): 4 half-second beeps then a 2-second pause.

The beep is continuous until the problem is resolved. Also, a message is sent to the host software e.g. the **First Access On-Premises** software shows event message like “DC Power Low 9 Volts or Less” or “DC Power High 16 Volts or Higher”.

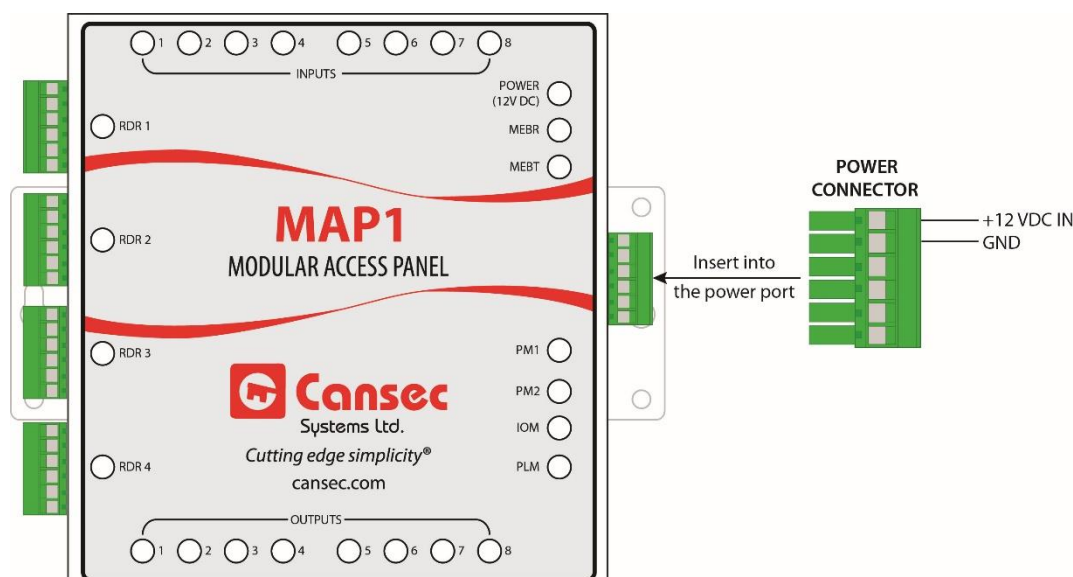
Panel Installation

CONTROLLER POWER CONNECTION

Note: See Note 1 in Appendix section for suggested power supplies & backup battery.

The MAP1 requires an external battery backed-up 12 VDC power supply. However, as many devices can be attached to the MAP1 controller, it may be more cost effective to use a separate power supply (battery backed-up) just for the MAP1 Controller and a separate power supply which can be sized to supply the amount of current that the attached high-current devices (locks) will require.

Figure 3



Mode Indicator: After a complete power up PM1 LED is ON, PM2 LED is OFF, IOM LED flashes once every second. The PLM LED flashes waiting for a host connection and stays steady when a connection is established. MAP1 emits beep to indicate operating mode. **Note:** Continuous beeps indicate power issue.

1 Beep – *First Access On-Premises*
3 Beeps – *First Access Cloud*

Note: Continuous beeps indicate power issue. Refer to Power Issue section for more information

ENTRY READER WIRING

The following diagram shows entry reader wiring only. For entry and optional exit reader wiring diagram, proceed to the next section.

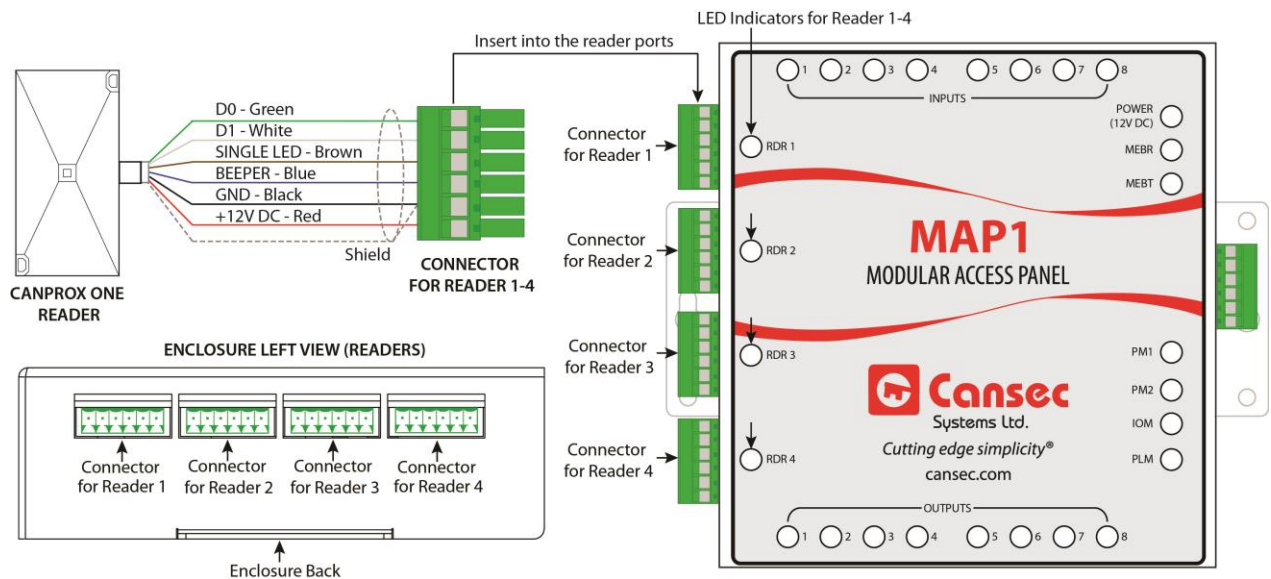
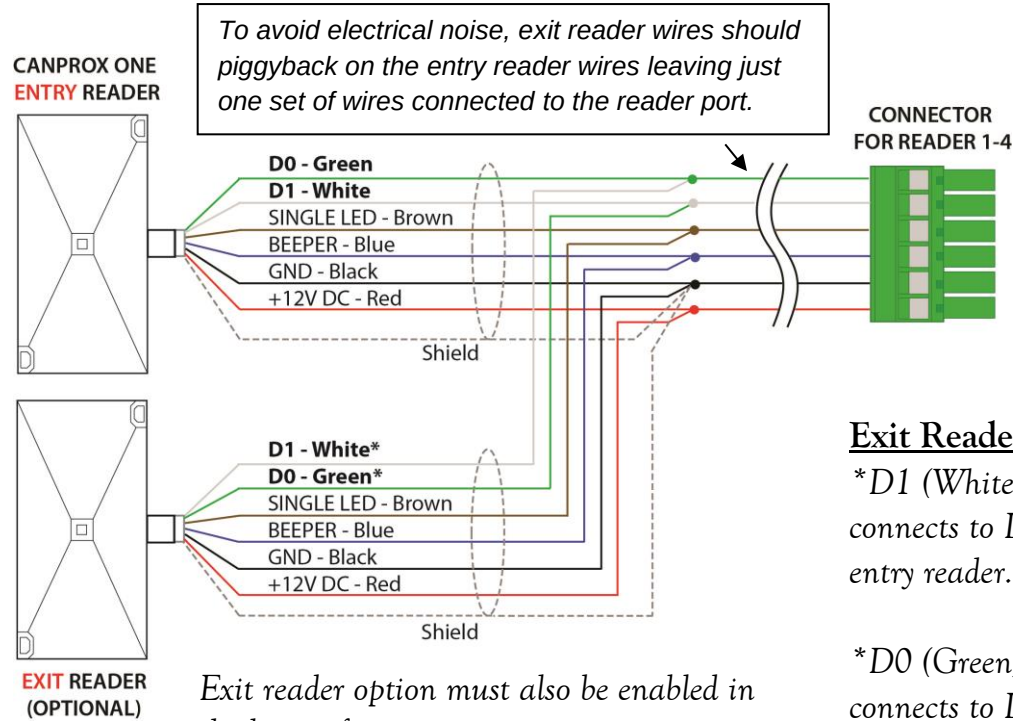


Figure 4

READER LED ON = Reader **Active**. Two Inputs and two Outputs are used for RTE/REX, door contacts well as lock relays and multi-function relays respectively.

READER LED OFF = Reader **Inactive**. Two Inputs and two Outputs are free to be used as independent auxilliary Input and Output points.

ENTRY AND EXIT READER WIRING



EXIT BUTTON AND DOOR CONTACT WIRING

The MAP1 controller can be provisioned for up to 4 doors. The following shows the input usage for each door combination.

Caution: When moving the MSJx - MicroShunt jumpers (small and easily dropped, accuracy is important during movement) it is advisable to set up the MAP1 Controller prior to attaching it to a surface. It is highly recommended that the MAP1 be removed from the attached surface to do a change of the MSJx position. See figure 6 below.

- Reader 1: uses Input 1 (Door Contact/DPS) and Input 2 (RTE/REX).
- Reader 2: uses Input 3 (Door Contact/DPS) and Input 4 (RTE/REX).
- Reader 3: uses Input 5 (Door Contact/DPS) and Input 6 (RTE/REX).
- Reader 4: uses Input 7 (Door Contact/DPS) and Input 8 (RTE/REX).

Note: Both door contact and exit button inputs have voltage present on the circuits. Only connect dry contact devices to these inputs. The RTE/REX can be set to “Normally Open” or “Normally Closed” from the host software.

Non-Supervised

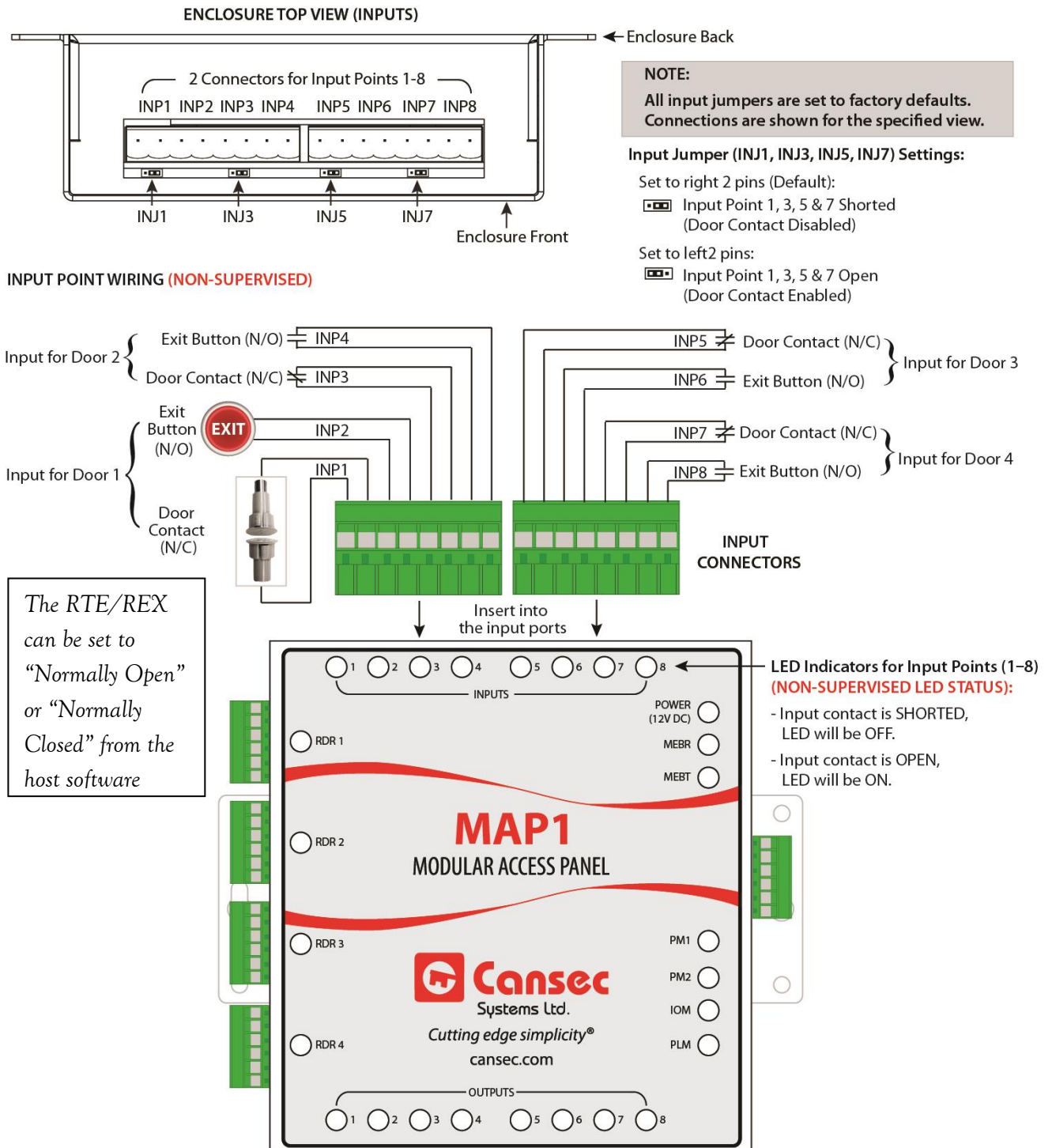
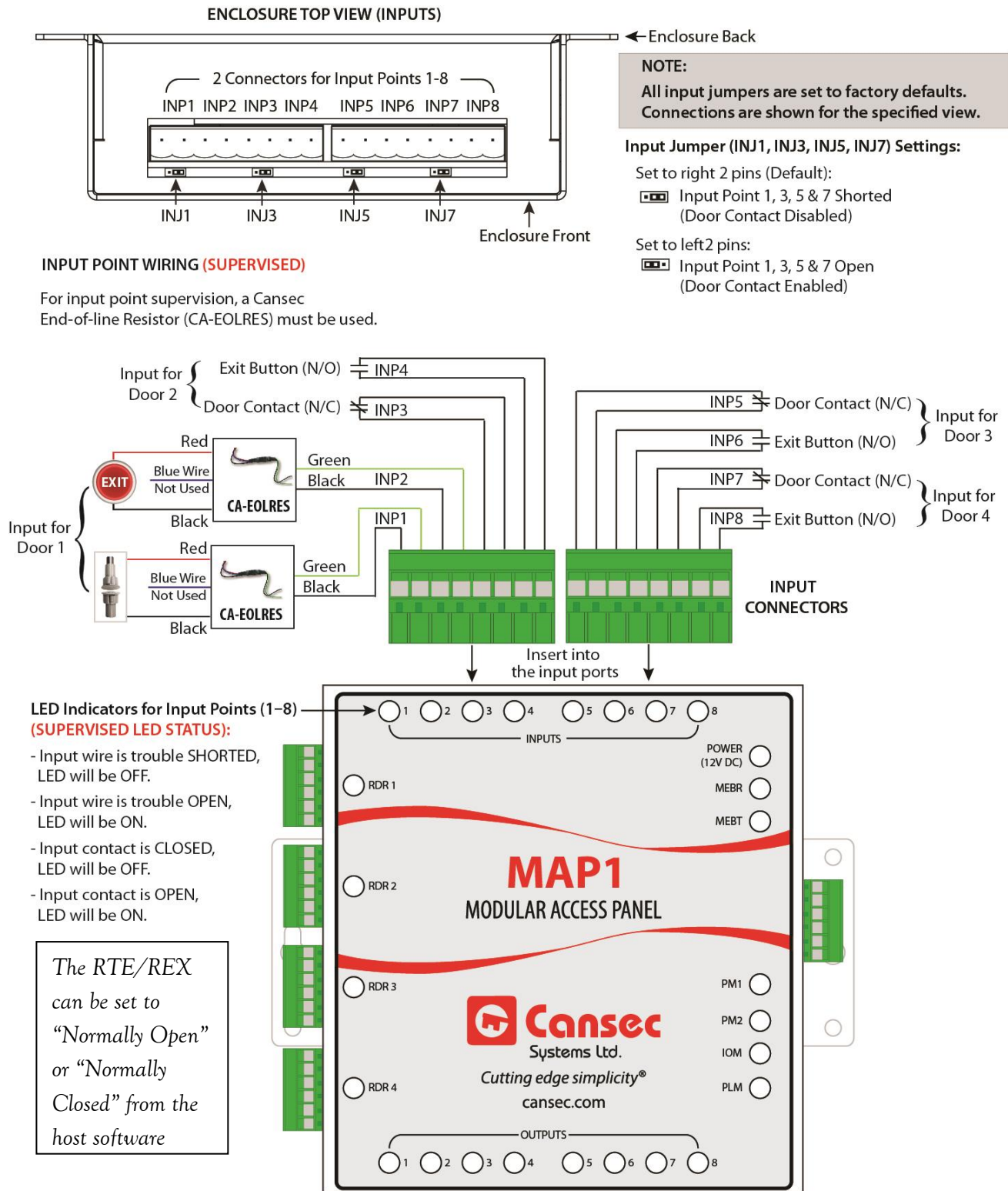


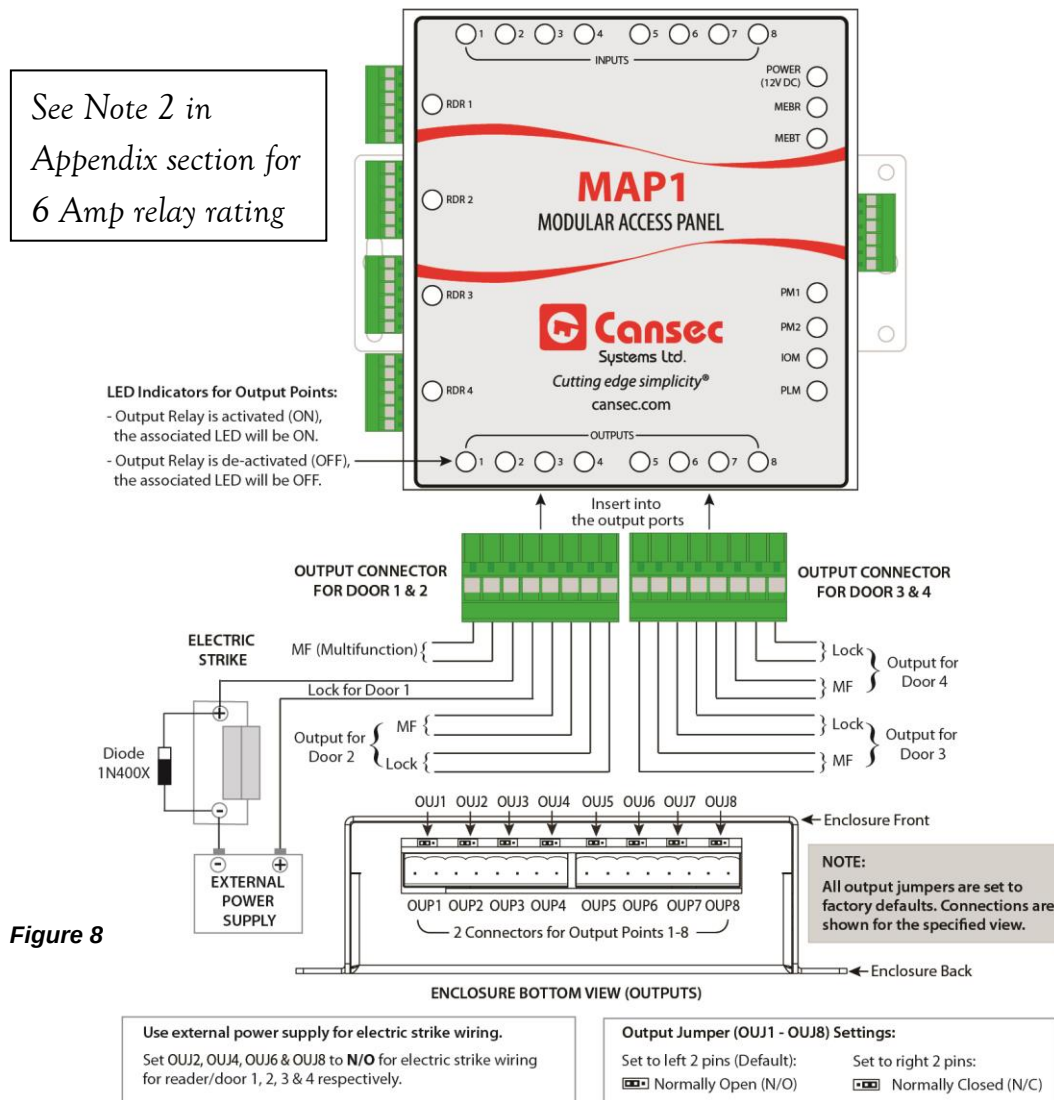
Figure 6

Supervised



LOCK OUTPUT AND MULTI-FUNCTION RELAY WIRING

❖ Electric Strike Lock Wiring – Up To 6 Amp, 30VDC MAX



The **Multi-Function (MF)** relay is configured by the user through the host software. This relay can be set to only one of the following options:

- **Alarm Shunt – (factory default)** Shunt the alarm system before opening lock.
- **Door Held Open (DHO)** – Door has been left open.
- **Forced Entry** – Door opened without access-granted or exit-button-press event.
- **Door Operator_All** – Activated on all cards (Lock Opens first).
- **Door Operator_HC** – Activated on only Handicap cards (Lock Opens first).
- **DHO and Forced Entry** – Activated on either DHO or Forced Entry.

❖ Magnetic Lock Wiring – Up To 6 Amp, 30VDC MAX

IMPORTANT: In some jurisdictions, the use of a UL approved power supply and connection to the fire alarm system for emergency release may be required. Installers should contact the local authority having jurisdiction to verify the specific requirements. Also, a building permit may be required in some jurisdictions for the installation of magnetic locks.

Note: See Electric Strike Lock Wiring section for explanation of MF relay usage.

LED Indicators for Output Points:

- Output Relay is activated (ON), the associated LED will be ON.
- Output Relay is de-activated (OFF), the associated LED will be OFF.

Note: A diode can cause slow release of the magnetic lock. It is better to use a MOV device. Some magnetic locks have built-in MOV devices; in that case no diode or additional MOV is required. Check with magnetic lock supplier.

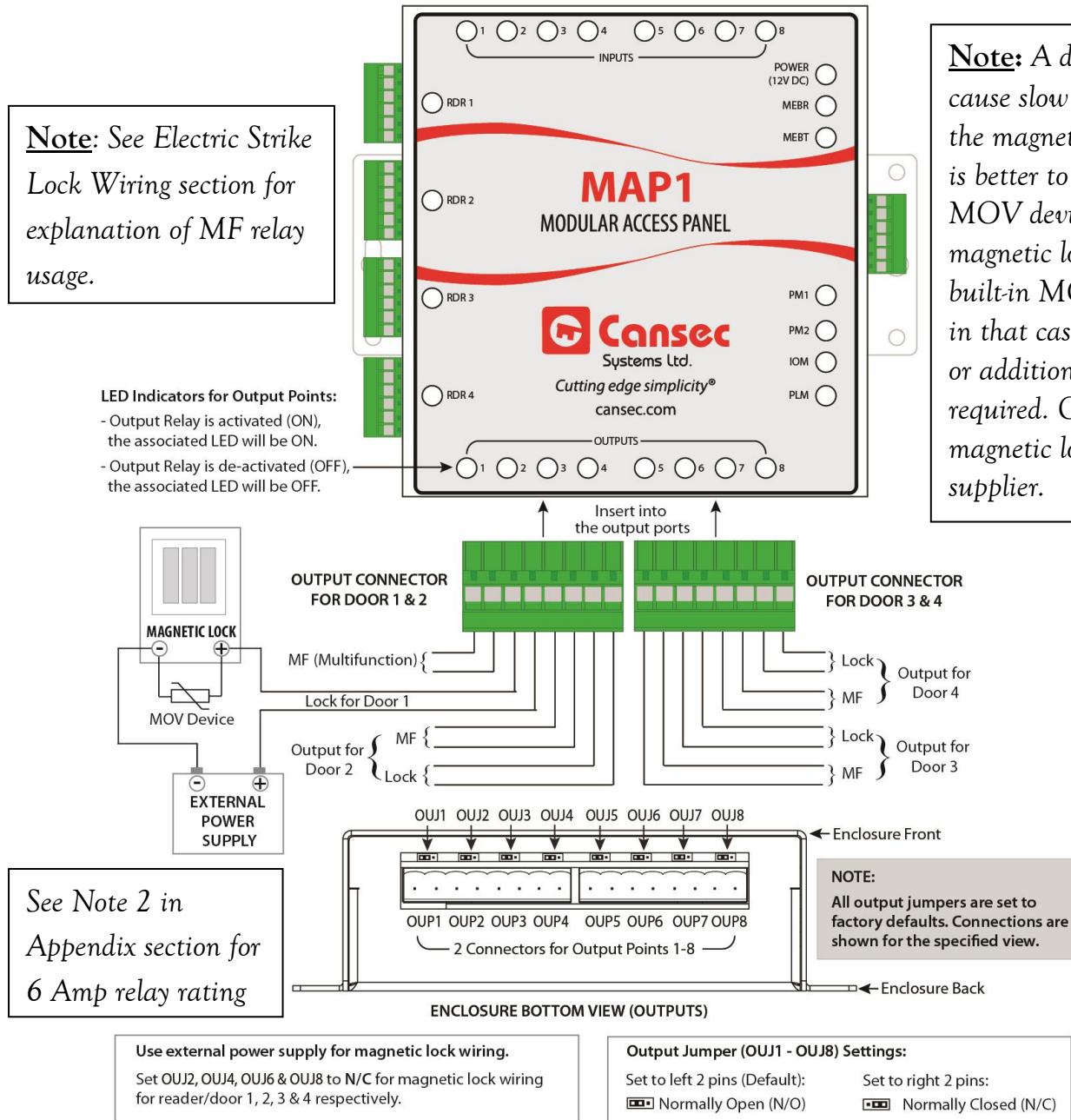


Figure 9

INPUT AND OUTPUT POINT WIRING

General Layout

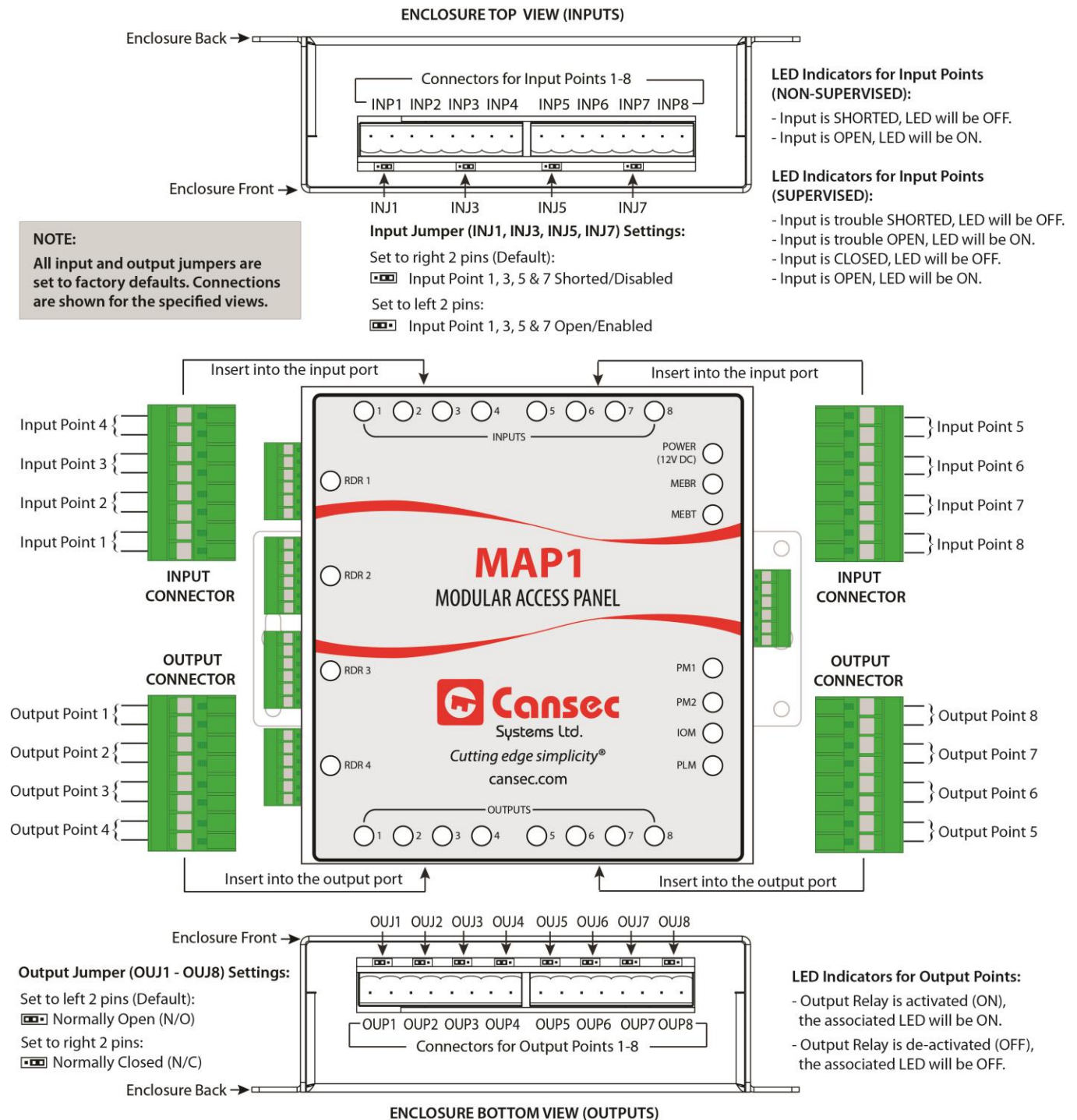


Figure 10

The MAP1 can be provisioned for all I/O which allows for 8 input points and 8 output points to be used and no door combination.

The inputs can be individually set through the host software to be supervised or non-supervised. The default input setting is non-supervised. Supervised input points require a Cansec CA-EOL resistor pack to be placed at the device being monitored. Supervised input points will inform the host of 4 supervised states: *Alarm*, *Secure*, *Trouble High* and *Trouble Low*

These are the same 8 input points which can be used with the door provisioning combinations, thus devices such as the Door Contact and RTE/REX pushbutton can be used in supervised mode of operation if necessary.

❖ Input Wiring – Supervised or Non-Supervised

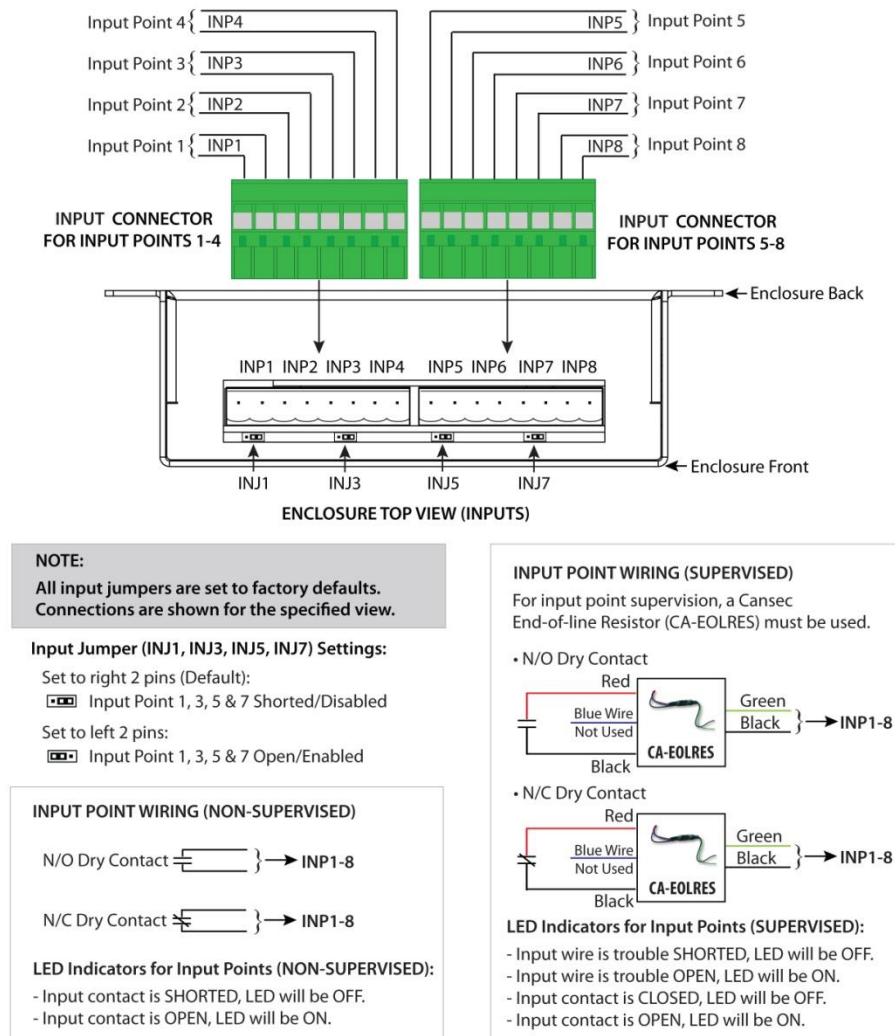


Figure 11

❖ Output Wiring

Caution: When moving the MSJx - MicroShunt jumpers (small and easily dropped, accuracy is important during movement) it is advisable to set up the MAP1 Controller prior to attaching it to a surface. It is highly recommended that the MAP1 be removed from the attached surface to do a change of the MSJx position.

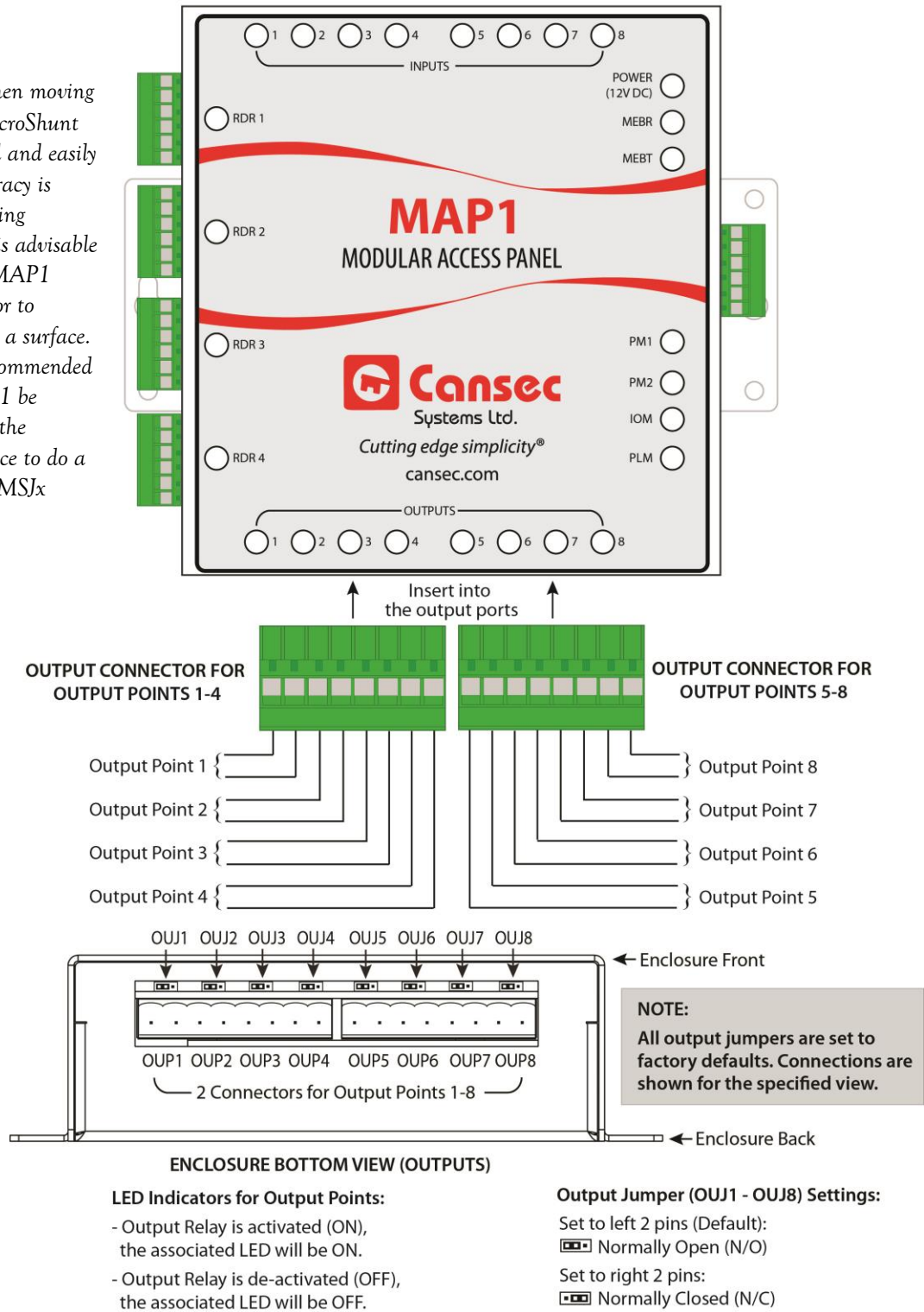


Figure 12

Appendix

Note 1: Suggested Power Supplies & Backup Battery

Part Number	Dimension & Weight H x W x D approx.	Description
 CA-EFLOW4N8D (battery not included) Accommodates up to two (2) 12VDC/7AH batteries.	13.5" x 13" x 3.25" (342.9mm x 330.2mm x 82.55mm) 6.7 lbs. (3.04 kg)	12/24 VDC selectable output, 4 Amp Enclosure Style Power Supply with Backup Battery Charger. Eight individual class 2 rated power limited outputs rated at 2 Amp. Input 120 VAC, 60 Hz, 3.5 Amp. UL listed.
 CA-EFLOW6N8D (battery not included) Accommodates up to two (2) 12VDC/7AH batteries.	13.5" x 13" x 3.25" (342.9mm x 330.2mm x 82.55mm) 6.65 lbs. (3.02 kg)	12/24 VDC selectable output, 6 Amp Enclosure Style Power Supply with Backup Battery Charger. Eight individual Class 2 rated power limited outputs rated at 2 Amp per output. Input 120 VAC, 60 Hz, 3.5 Amp. UL listed.
 CA-EFLOW102N16D (battery not included) Accommodates up to two (2) 12VDC/7AH batteries.	13.5" x 13" x 3.25" (342.9mm x 330.2mm x 82.55mm) 6.85 lbs. (3.11 kg)	12 VDC, 10 Amp Enclosure Style Power Supply with Backup Battery Charger. Sixteen individual Class 2 rated power limited outputs rated at 2 Amp per output. Input 120 VAC, 60 Hz, 3.5 Amp. UL listed.
 PA-SLP003	3.63" x 5.88" x 2.5" (92.20mm x 149.35mm x 63.50mm) 5.00 lbs (2.27 kg)	Backup Battery 12 VDC 7 Amp Hour. Provides hours of backup power for above power supplies.

Note 2: 6 Amp Relay Rating

Maximum current that can be switched reliably when connected to a 'non-inductive load' up to 30VDC. Electric strikes and magnetic locks are considered 'inductive loads'. It is important to have diode or MOV attached at the locking device to remove the CEMF pulse that is generated when switching an 'inductive load'. It is advisable to use a 50% switch factor or 3 amps as the maximum switching current for longer relay life. An external relay should be used on larger voltage and current requirements.

IMPORTANT: In some jurisdictions, the use of a UL approved power supply and connection to the fire alarm system for emergency release may be required. Installers should contact the local authority having jurisdiction to verify the specific requirements. Also, a building permit may be required in some jurisdictions for the installation of magnetic locks.

MAP1 SYSTEM INDICATORS

POWER LED: ON indicates 12 volts DC is connected.

MEBR LED, MEBT LED: For future use.

First Access On-Premises Mode:

- Mode indicator: MAP1 emits 1 beep after powered up.
- PM1 LED: ON, PM2 LED: OFF

First Access Cloud Mode:

- Mode indicator: MAP1 emits 3 beeps after powered up.
- PM1 LED: ON, PM2 LED: OFF

Note: PM1 and PM2 LED will occasionally and rapidly toggle ON and OFF when host communication is in progress.

IOM LED: Flashing RED – IOM (Input Output Module) is in normal operation.

PLM LED:

- Flashing GREEN – PLM (Panel Logic Module) is waiting for a connection from the host via Ethernet.
- ON GREEN – PLM (Panel Logic Module) is connected to a host via Ethernet.

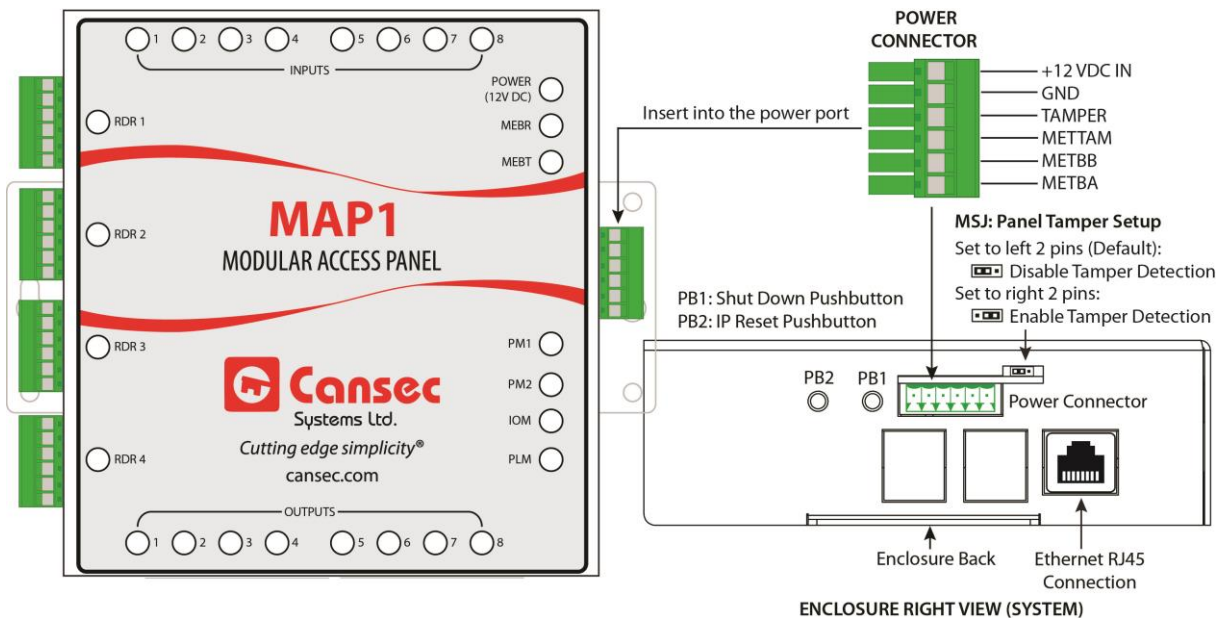


Figure 13

Connections:

- METBA and METBB are for future use. The Shield from METBA and METBB wire would be connected to METTAM.
- TAMPER allows for the connection of an external Enclosure Tamper Switch.
Note: The MAP1 has a Tamper MSJx-MicroShunt jumper to the right of this power connector.

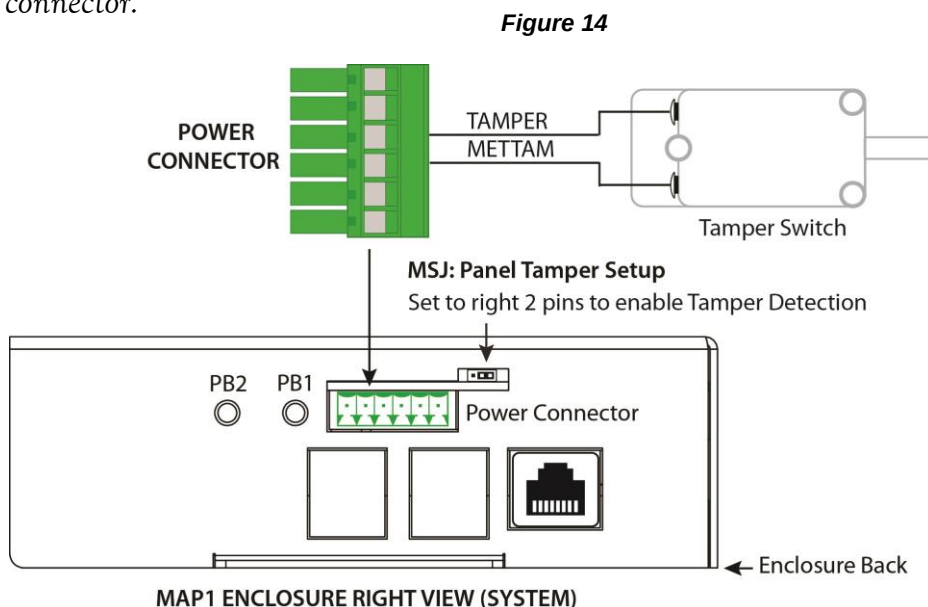


Figure 14

Factory default:

The Tamper jumper is set to disabled.

To activate the Panel Tamper move jumper to the right 2 pins. Connect the switch between TAMPER and the METTAM on the connector.

- GND – this is the 12 volt power supply ground.
- 12VDC IN – Power for MAP1. 12 volt DC battery backed up power supply. This is the power for the MAP1 and readers attached.

PB1 – SHUTDOWN BUTTON

As the MAP1 contains a mini computer, a proper system shutdown is necessary to prevent data corruption. **DO NOT simply unplug the power connector.** To shut down follow this procedure:

1. Use a paper clip or a small screw driver, press and hold (4 to 8 seconds) the PB1 pushbutton until the PLM STATUS LED on the front of the enclosure begins a rapid green ON/OFF flash.
2. Release the pushbutton. The system will start a proper shutdown. This will take 15 to 20 seconds.
3. Wait until all LEDs (except power) are turned off by the system. Then remove the Power Connector.
4. If the Shutdown does not occur, try the procedure again. If it still does not respond correctly as described above, a system fault has occurred. It will be necessary to unplug the Power connector and re-insert it after 10 seconds.

PB2 – IP RESET BUTTON AND STATIC IP ADDRESS CONFIGURATION

Note: The new panel is factory set to acquire an IP address automatically (DHCP). If the IP address has been changed to static address by an installer but now unknown or forgotten and needs to be reset, follow the instructions below.

It's highly suggested to leave it for DHCP mode. The controller will obtain IP address automatically from the DHCP server.

Alternatively, see USB IP Configuration Tool section for configuring IP Address using a USB flash drive.

1. Press and hold (4 to 8 seconds) the IP Reset PB2 pushbutton. Wait until the internal MAP1 beeper sounds then release the button. Beeper stops sounding.
2. The system will reboot. This will take 20 to 45 seconds after which the controller will reset all of its configurations to factory default with DHCP enabled. Existing database will not be reset or erased.
Note: The end of the reboot cycle is indicated by a MAP1 turning back on the associated system LEDs and at the end it will emit a series of beeps to indicate its mode e.g. **First Access On-Premises** or **First Access Cloud**.
3. Plug the MAP1 to the network with a DHCP server available.
4. Install and launch **IP Configuration Tool** from your computer. This tool is available from the **First Access On-Premises** software installation package, but is also available as its own separate installation package which can be downloaded from <https://cansec.com/downloads.html>.



Figure 15

5. In most cases, the **IP Configuration Tool** will detect and display the default IP address range ready to be scanned. However, the IP address range can be manually modified accordingly.

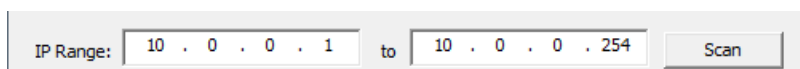


Figure 16

6. Click **Scan** to scan the network for all possible connected MAP1 panels.

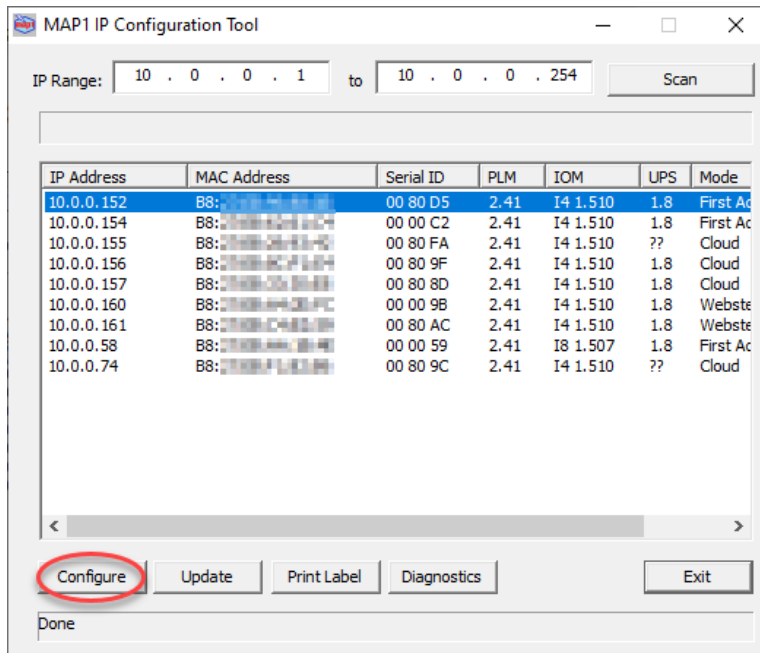


Figure 17

7. Double click on one of the detected panels or select it and click **Configure**.

8. Unselect **Enable DHCP**. Consult with IT personnel and enter the IP address, Subnet Mask, Gateway IP Address and Port numbers.

Note: The optional *Trusted Host IP* (see Figure 18) instructs the panel to accept data connection only from the host computer where the First Access On-Premises software is installed. Other connections for diagnosis and updating are not limited by this *Trusted Host IP*.

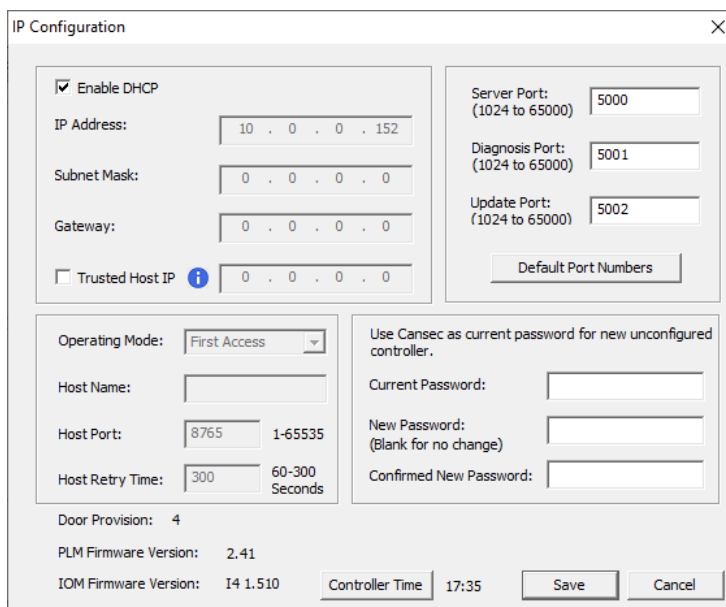


Figure 18

9. The factory default or current password for a new unconfigured MAP1 panel is **Cansec**. The password must be changed to something else other than **Cansec**.
10. Click **Save**. The panel saves the new settings and reboots for the settings to take effect.

USB IP CONFIGURATION TOOL

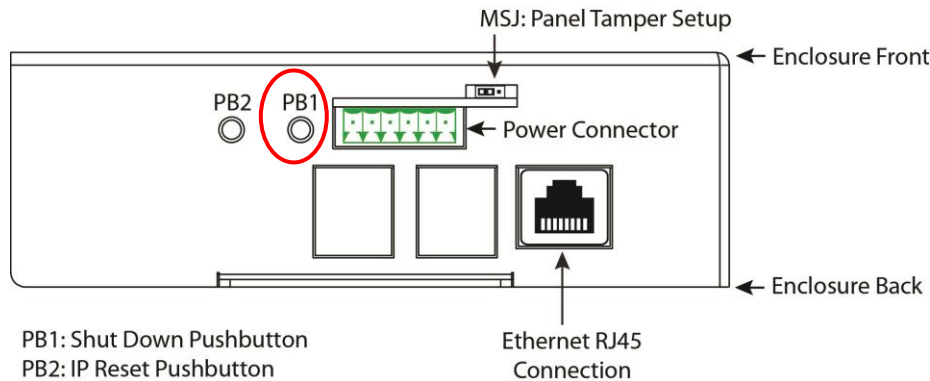


Figure 19

Important: *Shutdown Push Button (PB1) must be used to avoid data corruption on the MAP1 controller.*

1. If the MAP1 controller is powered on, press and hold the PB1 button for a period of 5 to 8 seconds and proceed to step 2. Otherwise, proceed to step 4.
2. When the PLM LED on the front of the MAP1 controller begins a rapid flash, release the Shutdown PB1 button.

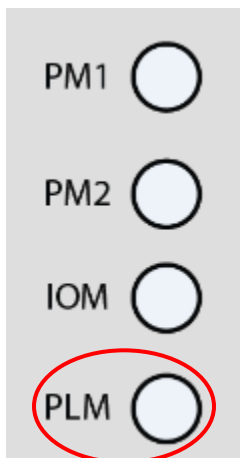


Figure 20

3. Wait until the MAP1 does a complete shutdown, indicated by all MAP1 LEDs going to the OFF state (except the Power LED), and unplug the power connector.
4. Insert a FAT32 formatted USB flash drive into an available USB connector on the MAP1 controller.
5. Insert the power connector into the MAP1 controller. The unit will begin the power up sequence which takes about 30 to 40 seconds. When complete, the MAP1 controller will emit a series of beeps to indicate its mode e.g. **First Access On-Premises** or **First Access Cloud**.
6. Remove the USB flash drive from the MAP1 controller.
7. Insert the flash drive into a USB port on a computer. When ready, launch Windows Explorer or File Explorer. Access the USB drive and edit the file named **MAPCFG.txt**

created by the MAP1 controller during boot-up sequence. If the file is not present, repeat from step 1. Otherwise proceed to step 8.
8. A similar file will be displayed when opened in Notepad.

```

MAPCFG - Notepad
File Edit Format View Help
;!!!!--> Model 3 <--!!!!!!
;NOTICE ---> DHCP IP configuration, Reconfigure to STATIC IP configuration
;
;   DHCP IP configuration :
;   Ip=172.15.30.101
;   NetMask=255.255.255.0
;   Gateway=172.15.30.1
;   DNS server 0.0.0.0
;   Ports are as indicated in the default Static IP config below
;
;EDIT Default Static IP configuration below
;
;!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
;
;-----
; Enter correct IP information below, then Delete the
; entire last line in this file, < USB INIT DONE >.
; This will force a re-configure using the new entered information.
; Caution: Do not add or delete any other lines
; Important : change entered password (Password cannot be Cansec)
;
;---> Current Default STATIC IP configuration from MAP1 SysCfg file information below:
;
[USBCFG]
Password=Cansec
Ip=0.0.0.0
NetMask=0.0.0.0
Gateway=0.0.0.0
SrvPort=5000
DiagPort=5001
UpdatePort=5002
HostPort=4070
Encryption=0
Authenticate=0
IpSecurity=0
ClientIp=0.0.0.0
HostName=ccloudacs.com
HostRetryInterval=60
DhcpEnabled=1
Future=
< USB INIT DONE >

```

Figure 21

Key Section & Name	Value	Description
[USBCFG]	[USBCFG]	Key section – <i>DO NOT</i> change
Password	Cansec	Factory default password. Please modify to an appropriate password of your choice other than the default password.
IP	10.0.0.101	Factory default IP address. Please Specify the IP address of the host computer having the <i>First Access On-Premises</i> software installed.
Netmask	255.255.255.0	Factory default subnet mask. Please specify the subnet mask where the host computer is connected to.
Gateway	10.0.0.1	Factory default gateway. Please specify the gateway where the host computer is connected to.
SrvPort	5000	Factory default server port. You may change it or leave it as default.
DiagPort	5001	Factory default diagnostic port. You may change it or leave it as default.
UpdatePort	5002	Factory default update port. You may change it or leave it as default.
Encryption	0	For future use only.
Authenticate	0	For future use only.
IpSecurity	0	Specify if trusted host is enabled or disabled. 1=enabled, 0=disabled
ClientIp	0.0.0.0	The IP address of the host computer having the <i>First Access On-Premises</i> software installed. If IpSecurity is enabled and ClientIp has a valid IP address specified then the MAP1 controller accepts data connection (SrvPort 5000) from only this host computer. Other connections on DiagPort 5001 and UpdatePort 5002 are not affected by this setting.
HostName	redirector.cansec.com	Applicable for Cloud based controller. The default hostname is redirector.cansec.com

HostRetryInterval	60	The default retry interval in seconds when the controller is disconnected from the First Access Cloud Server
DhcpEnabled	1	DHCP is enabled by default
Future	blank	For future use only.
< USB INIT DONE >	< USB INIT DONE >	Please remove this line after this file has been correctly modified. The MAP1 controller reads parameters in this file during boot up sequence and configures the IP address accordingly after which it will write <USB INIT DONE> to indicate that the initialization has been done.

9. Obtain all IP address information from IT personnel and modify the file accordingly. Remove the line <USB INIT DONE> and save the file before removing it from your computer.

10. Repeat from step 1 to step 6 then proceed to step 11.

11. Insert the flash drive into a USB port on a computer. When ready, launch Windows Explorer or File Explorer. Access the USB drive and check if there is an

error file  **UsbCfgErr.txt**
Text Document
4 KB

present along with the file  **MAPCFG.txt**
Text Document
2 KB

12. If no error file is present skip this step and proceed to step 13. Otherwise edit the error file and review the errors indicated. Correct the errors in the MAPCFG.txt accordingly and save it before removing it from the computer. Repeat step 1 to 6 then proceed to step 11. See sample error file.

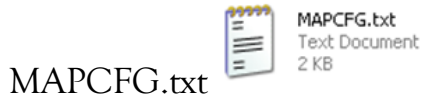
13. If no error file is present, it's recommended that the file

```

UsbCfg MAP1 Startup
USBCFG, Version 1.0, 04-20-21 21:35:42
Mount point created --usbdrive --success
USBCFG, Version 1.0, 04-20-21 21:35:42
Drive mounted as usbdrive -- success
USBCFG, Version 1.0, 04-20-21 21:35:42
Static ip path -MAPCFG.txt found on USB drive --proceeding
USBCFG, Version 1.0, 04-20-21 21:35:42
Parsing data in MAPCFG.txt
USBCFG, Version 1.0, 04-20-21 21:35:42
< USB INIT DONE > not found
USBCFG, Version 1.0, 04-20-21 21:35:42
Parsing data in MAPCFG.txt
USBCFG, Version 1.0, 04-20-21 21:35:42
Reached End of Config data
USBCFG, Version 1.0, 04-20-21 21:35:42
MAPCFG.txt correct data
USBCFG, Version 1.0, 04-20-21 21:35:42
UpdatePort must be >1025 and < 65535
USBCFG, Version 1.0, 04-20-21 21:35:42
MAPCFG.txt range check error -- exiting

```

Figure 22



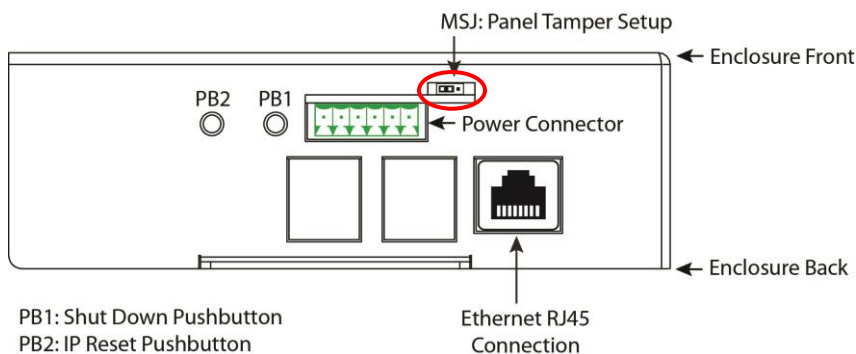
MAPCFG.txt be reviewed to ensure that the line <USB INIT DONE> has been written by the MAP1 controller indicating that the IP configuration has been successfully saved and initialized.

14. A file named SysInf.txt is also present. This file contains critical information if debugging is required. If this file is not present it is recommended that the controller be updated with the latest firmware.

DEFAULT FACTORY STATIC IP CONFIGURATION

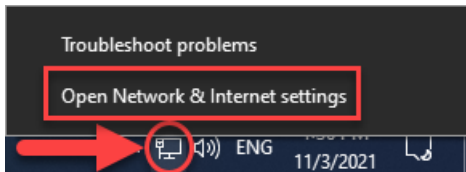
If you don't have a USB flash drive then follow the steps below to temporary set the controller to the default factory static IP address of 10.0.0.101

1. Temporarily remove tamper jumper, TAMPER = OPEN.

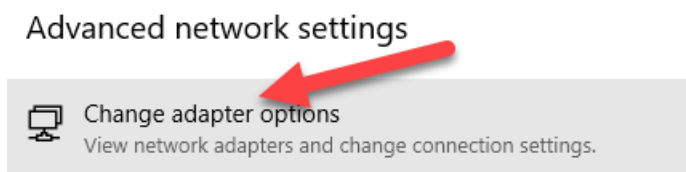


2. Press and hold the IP RESET PB2 button.
3. After approximately 3-5 seconds the MAP1 controller will emit a continuous beep. Release the IP RESET PB2 button.
4. The MAP1 controller will be reset and reboot with a default factory static IP address of 10.0.0.101.
5. Insert the tamper jumper, TAMPER = SHORTED. **Note:** If this is not done, on the next IP reset the controller will always return to the default factory static IP address of 10.0.0.101.
6. Insert one end of your Ethernet cable (RJ45) to your computer and the other end of the cable to the MAP1 controller.

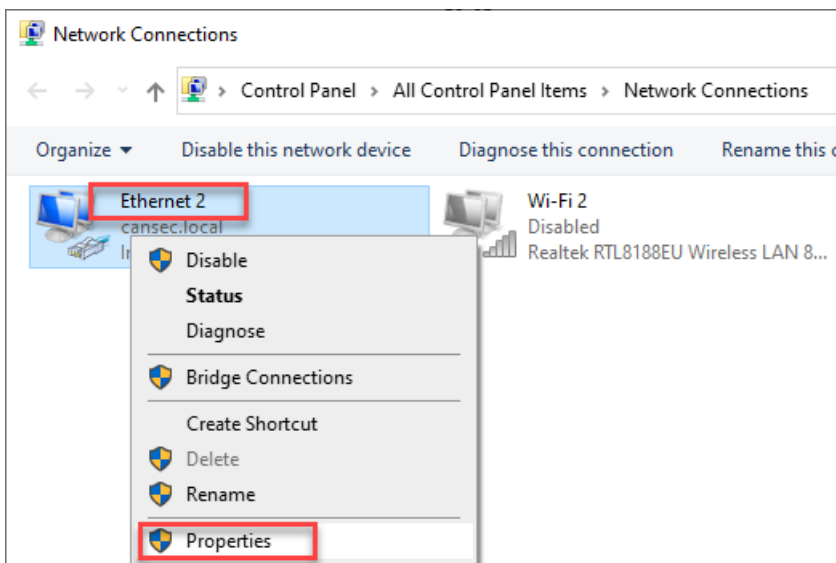
7. Right click on the network icon from the Notifications Area at the bottom right corner of your screen and select Open Network & Internet settings



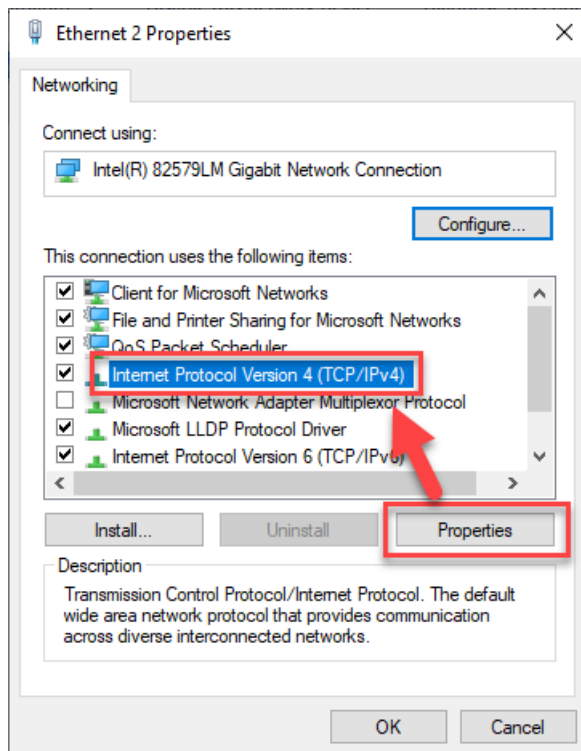
8. Under Advanced network settings select Change adapter options



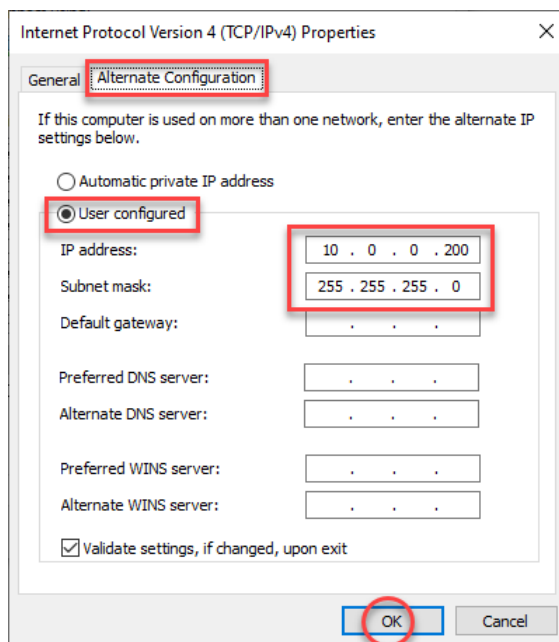
9. Right click on your network adapter, in this example it's Ethernet 2, and select Properties.



10. Select Internet Protocol Version 4 (TCP/IPv4) and select Properties button.

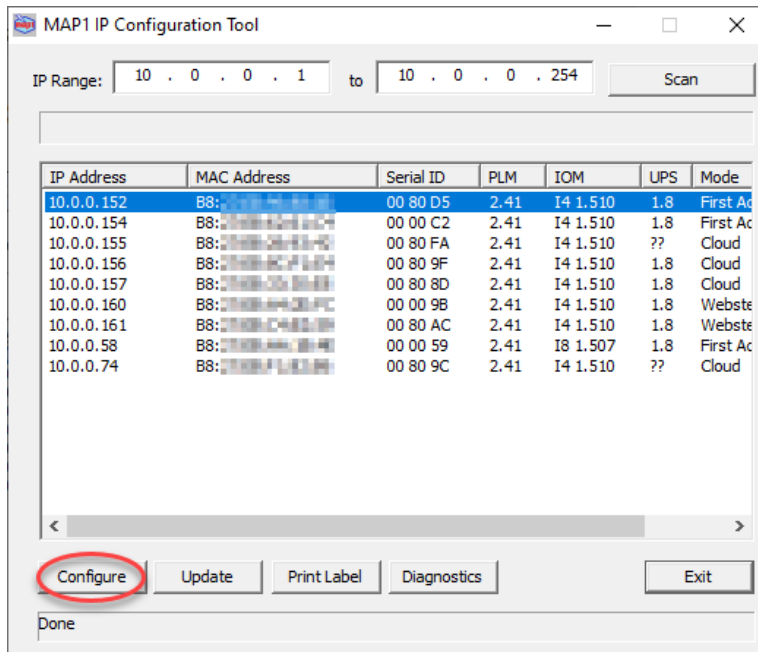


11. Select Alternate Configuration and select User configured then enter the IP address of 10.0.0.200 followed by the Subnet mask of 255.255.255.0. When done select OK all the way out.



12. Your network card is now configured with an alternative IP address of 10.0.0.200 which is in the same subnet of the MAP1 controller 10.0.0.101.

13. Wait for at least 1 minute before using the MAP IP Configuration Tool to scan for the controller and set it to a static IP address of your choice instead of the factory default static IP address.



FORCED ENTRY OUTPUT

To monitor forced-entry or door-held-open alarm conditions, connect a Normally Closed door contact switch or sensor to the door contact input. The (MF) multifunction relay, when configured as **Forced Entry**, will be activated if the door is forced open without either an access-granted or an exit-button event. A message will be transmitted to the host software if the panel is online.

DOOR HELD OPEN OUTPUT

The (MF) multifunction relay, when configured as **Door Held Open**, will be activated if the lock is unlocked and the door is held open longer than the permitted door-held-open time programmed from the host software. The reader beeps to notify the user by first generating a pre-alert beep followed by a solid beep, then a message is also transmitted to the host software if the panel is online.

ALARM SHUNT OUTPUT

The (MF) multifunction relay is factory configured as *Alarm Shunt*. When an access-granted or an exit button event occurs, the alarm shunt output relay is activated first followed by the lock output relay. The relay can be used to bypass an external alarm point. When an access-granted or an exit button event is complete, the lock output is turned off followed by the Alarm Shunt output after a short delay. If a door contact is used then Alarm Shunt output is turned off shortly after the door contact is closed.

DOOR OPERATOR OUTPUT – ALL CARDS

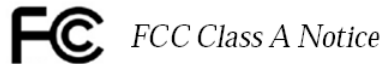
The (MF) multifunction relay, when configured as *Door Operator_All*, will be activated by all cards and by exit button press. The lock relay will be activated first followed by a one second pulse on this MF relay which is used to trigger the door operator.

DOOR OPERATOR OUTPUT – HANDICAP CARDS ONLY

The (MF) multifunction relay, when configured as *Door Operator_HC*, will only be activated by cards designated as handicap and by exit button press. The lock relay will be activated first followed by a one second pulse on this MF relay which is used to trigger the door operator.

DHO AND FORCED ENTRY

The (MF) multifunction relay, when configured as *DHO and Forced Entry*, will be activated on either *Door Held Open* event or *Forced Entry* event. A corresponding message will be transmitted to the host software if the panel is online.



This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

This device may not cause harmful interference.

1. This device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a 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 it is not installed and used in accordance with the instruction manual, it 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.

ICES-003

ICES-003 Class A Notice - Avis NMB-003, Classe A

This Class A digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.



The product has been tested and found to comply with **CISPR 11:2009 + A1:2010 / EN 55011:2009 +A1:2010, Class A - Industrial, Scientific and Medical Equipment.**