Gallagher

Controller 7000 Single Door

Installation Note

Controller 7000 Single Door, RS485:	C400010
Controller 7000 Single Door, Wiegand:	C400011
Controller 7000 Single Door, PoE+, RS485:	C400020
Controller 7000 Single Door, PoE+, Wiegand:	C400021

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Introduction

The Gallagher Controller 7000 Single Door is a processing board for an intruder alarm and access control system that can control a single door. The Controller is available in four variants:

- 'RS485',
- 'Wiegand',
- 'PoE+, RS485', and
- 'PoE+, Wiegand'.

When the Controller 7000 Single Door PoE+ variants are powered from a suitable PoE+ Switch or Injector, they can be installed without a cabinet, battery or additional power supply.

Features specific to each variant are shown in the table below:

Feature	RS485	Wiegand	PoE+, RS485	PoE+, Wiegand
1 x Ethernet 10/100 port	Yes	Yes	Yes	Yes
Security microprocessor	Yes	Yes	Yes	Yes
PoE+	No	No	Yes	Yes
Battery charger	No	No	Yes	Yes
1 x RS485 port	Yes	No	Yes	No
1 x Wiegand port	No	Yes	No	Yes
Inputs	6	5	6	5
1 x Relay output	Yes	Yes	Yes	Yes
1 x Auxiliary output	Yes	Yes	Yes	Yes

The Controller authenticates user access, logs it and carries out the required function, (e.g. opens the corresponding door). It is an Ethernet attached device which connects to the Gallagher Command Centre server, however it can operate autonomously.

Notes:

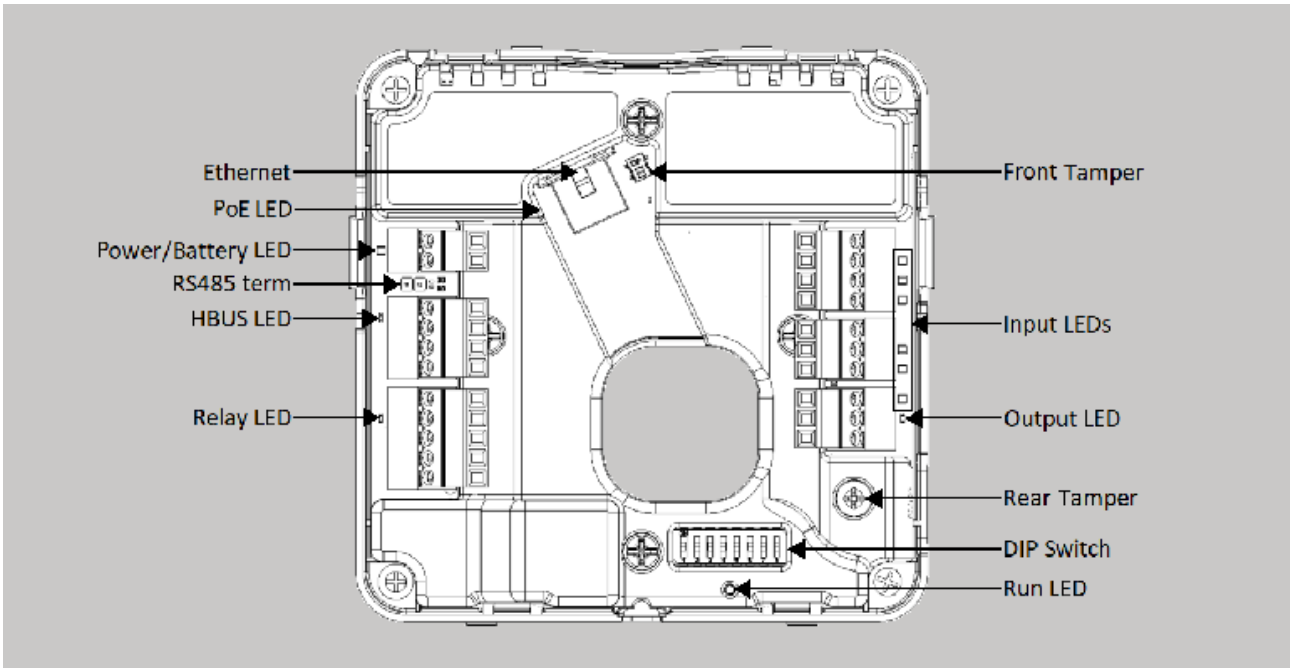
- The Controller 7000 Single Door can be used with version vEL8.70.2078 (MR3) and vEL8.80.1025 (MR1) or later of Command Centre.
- From 8.90, the Controller will accept IP address offers from standard DHCP servers by default. You can use DIP switch 4 to disable this behaviour, which may be necessary if you want to use BootP to set up a Controller and there is a DHCP server on the network.
- To bring a Controller online using DHCP, give your Command Centre server the name "gallagherserver" (or alias) in DNS. The Controller will automatically find the server and come online.
  Note: The Command Centre server address can also be configured using DHCP rather than DNS. This is described in the topic *"Configuring a Controller for DHCP"* in the Command Centre Configuration Client Online Help.
- From 9.20, the Controller can be configured to use 802.1x authentication. This is described in the topic *"Configuring a Controller 7000 or 7000 Single Door for 802.1x"* in the Command Centre Configuration Client Online Help.
- From 9.30, the Controller can be configured to connect to Command Centre over the internet via OneLink. This is described in the topic *"OneLink Configuration"* in the Command Centre Configuration Client Online Help.

Accessories

Accessory	Product Code
Controller 7000 Single Door, Mounting Plate	C400180
Controller 7000 Single Door, DIN Rail Adapter	C400181
Controller 7000 Single Door, Mounting Block	C400900
Controller 7000 Single Door, Relay Board	C400910

Connections

Component layout



DC Power supply

Connecting DC and PoE+ (or PoE) at the same time is not supported.

When operating from DC only, the Controller requires a 13.6 Vdc ± 15% power supply at the Vin terminals. The RS485 and relay terminal provide power out connection points via electronic fuses. When using these connection points, ensure the power supply to the Controller is capable of supplying the extra current required.

The Power/Battery LED reflects the voltage of the supply when the cover is open:

- White = starting up
- Green = voltage OK (11.5V< Vin <15.7V)
- Yellow flashing = voltage low (10.4V< Vin <=11.5V)
- Red = voltage too high (Vin >=15.7V)
- Red flashing = voltage critically low (Vin <=10.4V)

PoE+ Power supply

Connecting DC and PoE+ (or PoE) at the same time is not supported.

The Controller can be powered by a PoE+ (802.3at Type 2) or PoE (802.3af or 802.3at Type 1) Ethernet switch. Due to its limited power PoE is not recommended.

The PoE LED near the Ethernet socket will illuminate blue when the Controller is receiving power from PoE+ or PoE.

The PoE+ variant may delay providing power to external devices up to one minute from power on due to PoE power negotiation with the switch.

Power budgeting with PoE+ is extremely important to avoid overload resulting in shutdown.
See the *"Power Budgeting"* section later.

PoE+ Battery backup

When running from PoE+ (or PoE), it is possible to connect a 7Ah Sealed Lead Acid backup battery to the Vin terminals. Once configured correctly the Controller will automatically float charge and monitor the battery. If PoE+ fails, the Controller will automatically switch to the backup battery to power the system.

When PoE present (blue PoE LED illuminated) and the cover is open:

- White = starting up
- Green = battery voltage OK (13.3V< Vin <15.6V)
- Yellow = battery charging (Vin <13.3V)
- Red = battery absent or dead (<10V Vin when charging temporarily disabled)
- Off = battery absent and configured absent in Command Centre

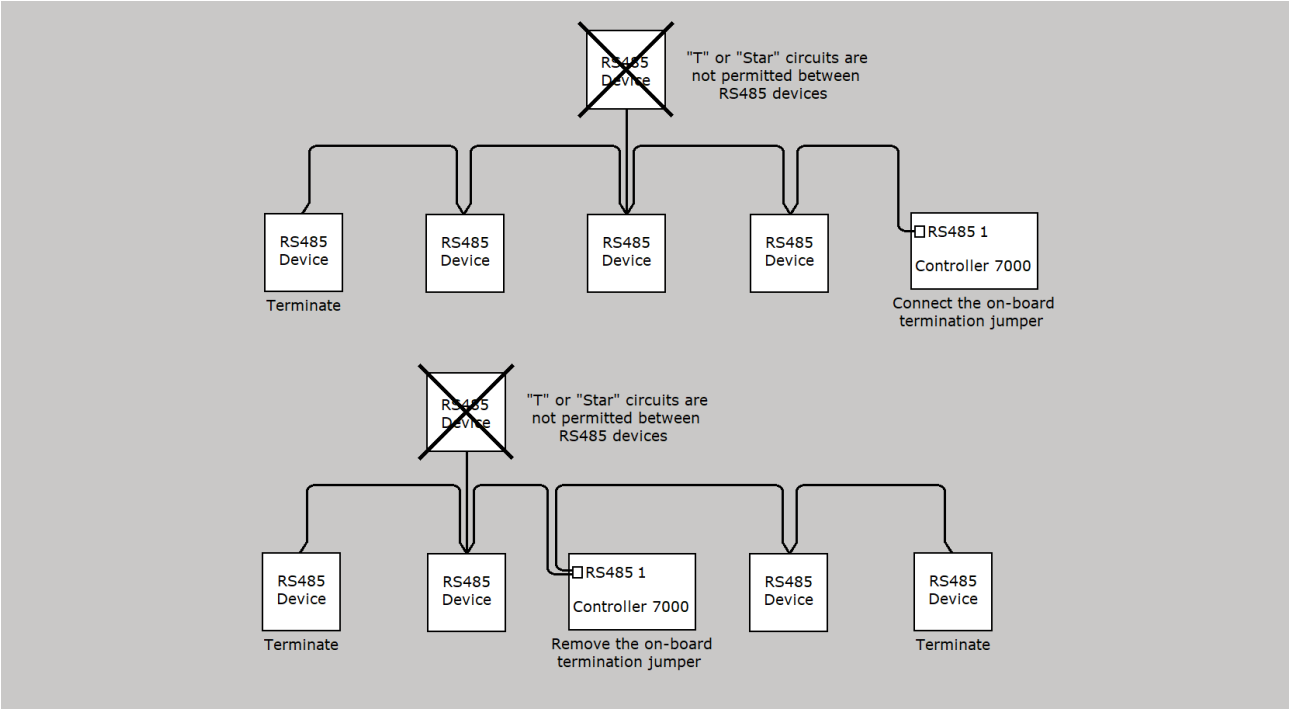
When PoE is lost the Power/Battery follows the same patterns as DC power.

RS485 cabling

The Controller is equipped with one (non-isolated) RS485 communication port. Any Gallagher RS485 HBUS device can connect to the RS485 port.

The cable type used should be a low capacitance cable such as RS485 data cable or CAT5e cable.
The power supply cable must be of sufficient size to ensure the voltage at the RS485 device is the recommended 12 Vdc.

The cabling between RS485 devices should be done in a "daisy chain" or serial format, (i.e. A "T" or "Star" topology should not be used between devices). The end devices on the RS485 cable should be terminated using 120 ohms resistance.



Ethernet cabling

The communications between the Controller and the Command Centre server must be via a permanent Ethernet connection.

For optimum performance 100BaseT unshielded twisted pair (UTP) (CAT5e or better) cable should be used. The Controller is provided with an RJ45 socket for Ethernet connection.

RS485 device limits*

Device specific limitations that apply are:

- Maximum of 80 Z10 Tension Sensors [**Note:** Not UL evaluated]
- Maximum of 24 HBUS Fence Controllers (F22/F31/F32/F41/F42) [**Note:** Not UL evaluated]
- Maximum of 20 T Series Readers (only 1 Door can be configured per Controller, but that Door can have up to 20 T Series Readers assigned to it as Entry/Exit readers, Lockers, Elevator Cars, etc.)
- Maximum of 4 T20 Terminals (when used for alarms management). A terminal is configured for alarm zone management when it has either Alarm Zones configured on the Alarm Zones properties page or items configured upon its mimic panel.
- Maximum of 16 HBUS 8 In 2 Out Door Modules, HBUS 16 In 16 Out Boards, HBUS 8 In 4 Out Boards, or HBUS 8 In Boards
- Maximum of 16 Aperio devices per Controller (16 per RS485 port)
  Note: Since the RS485 variants of the 7000 Single Door come with a single RS485 port, they can support a maximum of 16 Aperio devices, while the Wiegand variants can support none.

The recommended maximum number of RS485 devices that should be connected to a Controller 7000 Single Door is 80.

***** Only those devices listed in the document *"3E2793 Gallagher Command Centre UL Configuration Requirements"* have been evaluated and approved for use by UL.

Tampers (built in)

There are front and rear tamper switches. The rear tamper tab must be screwed to the mounting surface for the rear tamper to work.

Tamper, external cabinet

When used in a cabinet it is possible to configure Input 1 as the cabinet tamper input. When configured as the cabinet tamper, input 1 is a 2 state input that will generate tamper alarms.

Aux Output (terminal labelled O)

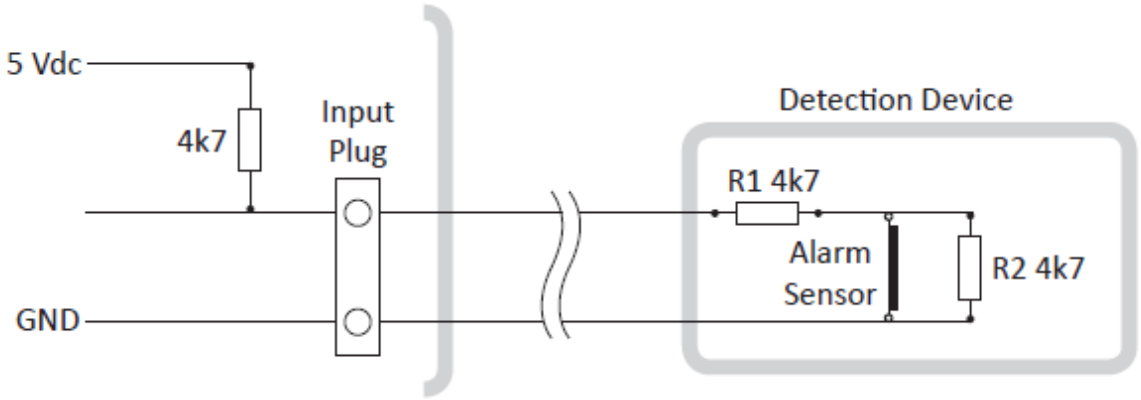
Transistor relay switch to ground, current limit 0.5A, polyfused protected. This can be used directly with the C400910 Controller 7000 Single Door Relay Board accessory to provide a second relay output.

Balanced Inputs

Cabling should be a minimum size of 24 AWG (0.2 mm2) for all balanced inputs.

To ensure correct tamper detection (closed or open circuit), the balanced inputs require 4k7 ohm resistors to be connected as close as possible to the device being monitored.

When the monitored device incorporates a normally-closed tamper switch, it can be wired in series with resistor R1.



Resistor values can be configured in Command Centre (via the EOL Resistors property page). Refer to the topic *"Configuring EOL Resistors for devices"* in the Command Centre Configuration Client Online Help.

Once configured in Command Centre with the correct EOL resistor settings the Input LEDs will indicate the following with the cover open:

- Input Open = Red
- Input Closed = Green
- Tampered, open = Off (effectively this is an input that is not wired up)
- Tampered, closed = Green flashing
- Masked = Yellow
- Fault = Yellow flashing

Output Relay

The cabling to and from the relay connectors must be capable of carrying sufficient current for the device the relay is controlling. Each relay circuit is rated:

- 3 A at 24 Vdc/ac for a resistive load
- 1 A at 24 Vdc/ac for an inductive load

Ensure back EMF snubbing components (a diode or Metal Oxide Varistor) are fitted to inductive loads to prevent voltage spikes from causing equipment to malfunction.

Output power fuses

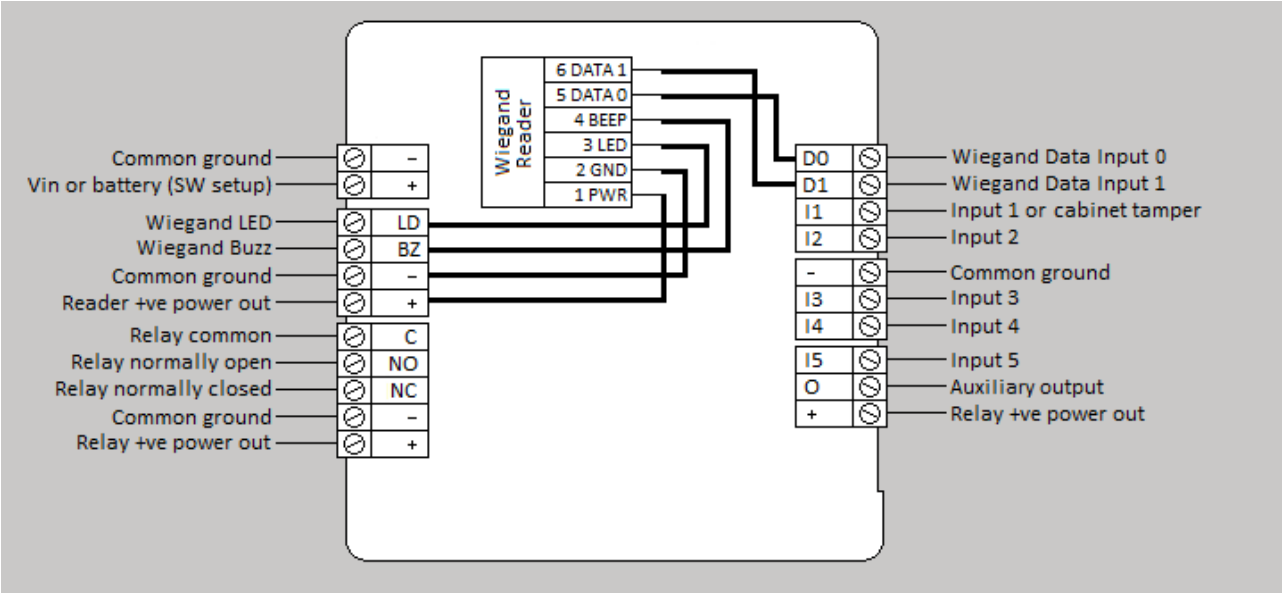
The Controller has two internal electronic fuses. "RS485 +ve power out" is intended for card readers with a guaranteed 0.6A limit. "Relay +ve power out" is intended for locks with a guaranteed 1A limit. There are 2 terminals that share this electronic fuse. To guarantee the stated output currents, the actual current limits are set slightly above these limits.

These electronic fuses limit the current and automatically reset if tripped.

Alarms are generated when the electronic fuses reach their limits.

Wiegand

One Wiegand reader is supported on Wiegand variants.



Power budgeting

Connecting DC and PoE+ (or PoE) at the same time is not supported.

General

PoE+ and electronic fuses react quickly to overload events, hence power budgeting must use peak current and power draw values to ensure reliable operation.

DC Power supply

Follow standard practice power budgeting for available power and considering internal and external fuse ratings. A minimum of 2A rated DC power supply is recommended.

PoE+ Power supply only

If the peak PoE+ power is ever exceeded, it is likely the controller will shut down unless a backup battery is used.

The PoE+ controller regulates the output voltage to 13.6V.

13.6V at 1.5A peak is available for external devices. This is the total peak current available to external devices, exceeding this, even momentarily, will likely result in power loss.

It is recommended to keep the average power below 1A (75% of peak). This will ensure headroom for unexpected current peaks from external devices.

Notes:

- UL requires the output load shall not exceed 1A, to be compliant with UL294.
- When running from PoE+ the controller generates a significant amount of heat and will feel warm to the touch, this is normal.

PoE+ Power supply with battery backup

Using a battery backup makes the system far less vulnerable to overload as the backup battery will supply power if the PoE+ power budget is exceeded. If the PoE+ Ethernet switch is overloaded, the system will generate PoE+ lost alarms but will maintain power assuming the battery has capacity.

Apply the same principles as PoE+ power budgeting but allow 0.2A for the battery charger.

PoE Power supply only

Using PoE is not recommended. A short circuit on any electronically fused output will overload a PoE Ethernet Switch.

The PoE controller regulates the output voltage to 13.6V.

13.6V at 0.6A peak is available for external devices. This is the total peak current available to external devices, exceeding this, even momentarily, will likely result in power loss.

It is recommended to keep the average power below 0.45A (75% of peak). This will ensure headroom for unexpected current peaks form external devices.

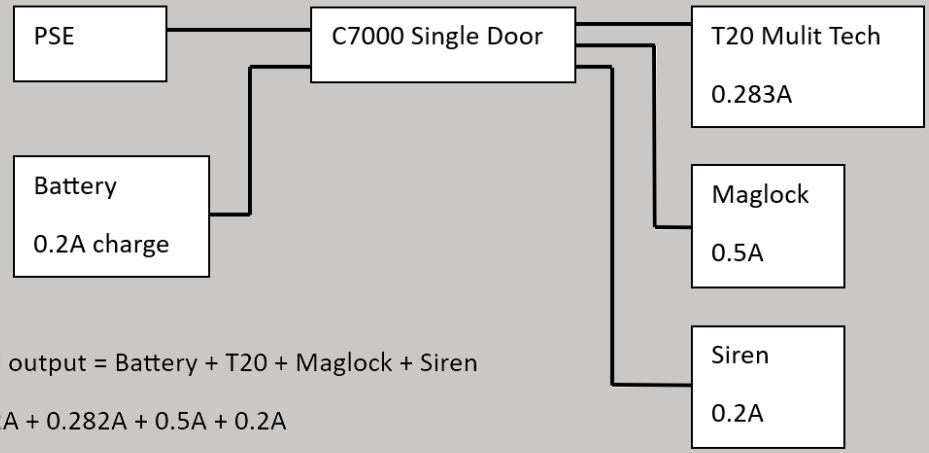
PoE Power supply with battery backup

Using PoE with battery backup is not recommended.

Apply the same principles as PoE power budgeting but allow 0.2A for the battery charger.

UL294 (Access Control) POE+ Power example

Total output current must be <= 1.2A



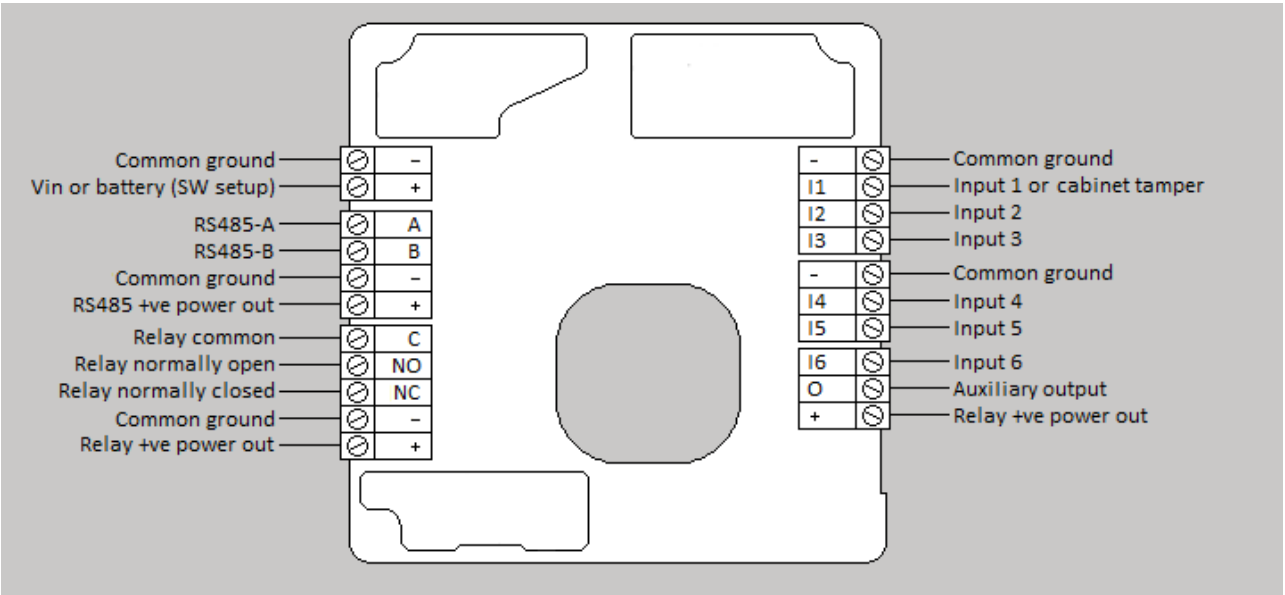
Total output = Battery + T20 + Maglock + Siren

= 0.2A + 0.282A + 0.5A + 0.2A

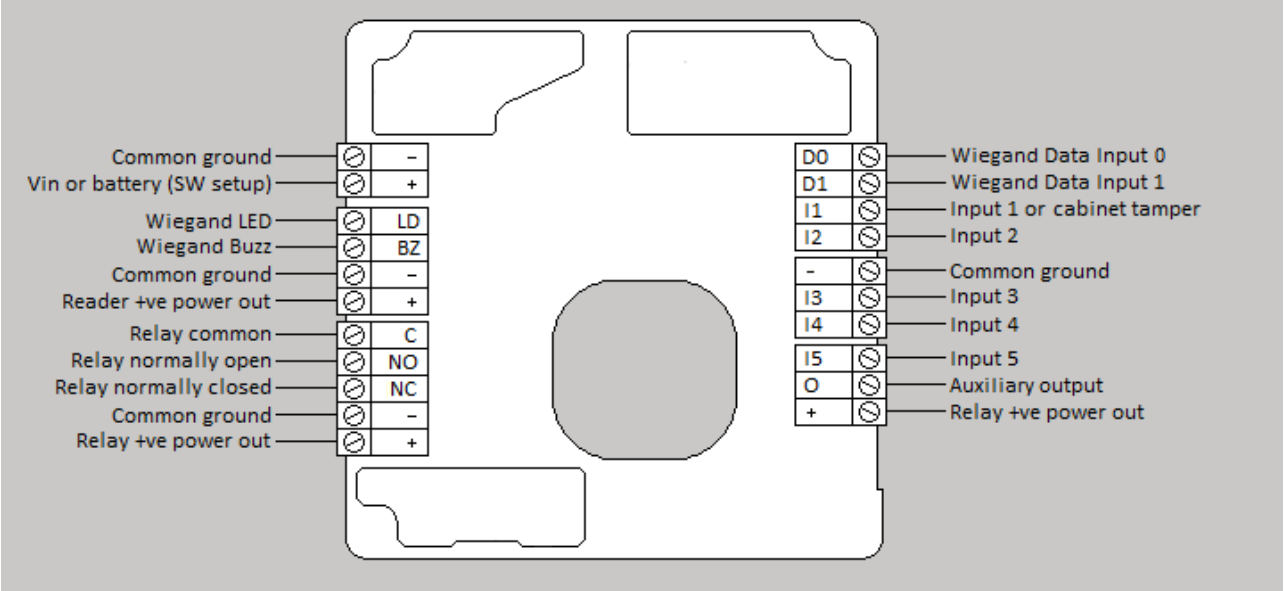
= 1.182A <= 1.2A

Wiring diagrams

RS485 variants



Wiegand variants

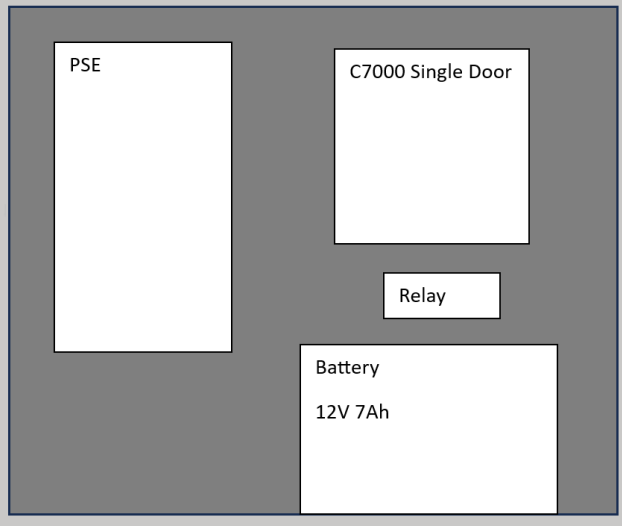


Installation

ATTENTION: This equipment contains components that can be damaged by electrostatic discharge. Ensure both you and the equipment are earthed before beginning any servicing.

The installation of this Controller must be carried out by a Gallagher Install Partner. There are five mounting options available, as follows:

- on any solid flat surface (using the 4 corner screw holes)
- on a electrical flush box (using the vertical screw holes for a New Zealand/Australia/USA electrical flush box, or the horizontal screw holes for a European electrical flush box)
- on a mounting plate (C400180)
- on a DIN rail adapter (C400181)
- on a mounting block (C400900)



UL294 (Access Control) POE+ cabinet example

Cabinet = LifeSafetyPower E series model E5

PSE = Altronix Netway E1

Relay = Controller 7000 Single Door, Relay Board C400910

C7000 Single Door = Controller 7000 Single Door C400020 or C400021

Note: The PoE+ versions of the Controller 7000 Single Door do not need to be installed in a cabinet. They are fully tamper protected - front and rear. A cabinet is available if battery back up is required or non-PoE versions are used.

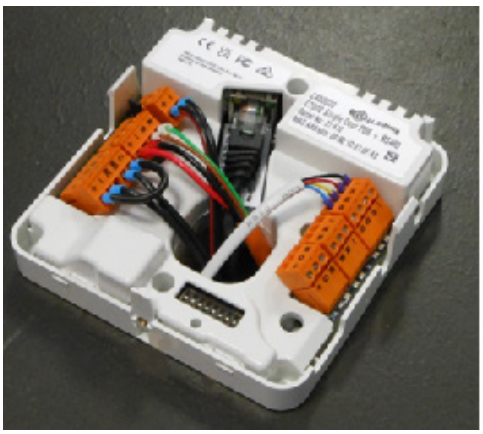
Complete the relevant instructions to install the Controller for the mounting option you have chosen.

Installing the Controller on a flat surface

1. If required, drill pilot holes for the four corner fixing holes and the tamper tab.
2. Secure the bezel to the mounting surface using the selected screw holes.
3. Secure the tamper tab (located in the bezel) to the mounting surface.
   Note: It is important the four corner fixing screws are used to ensure the terminal is flush with and tight against the mounting surface.

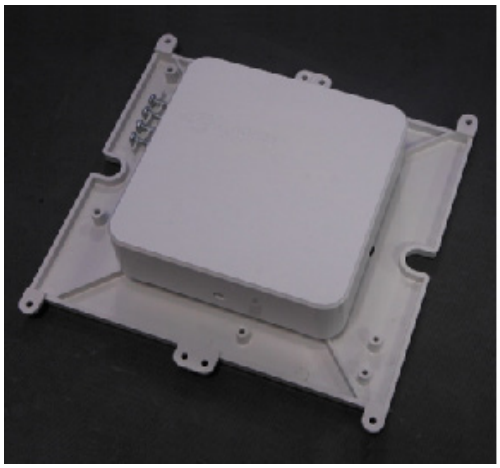
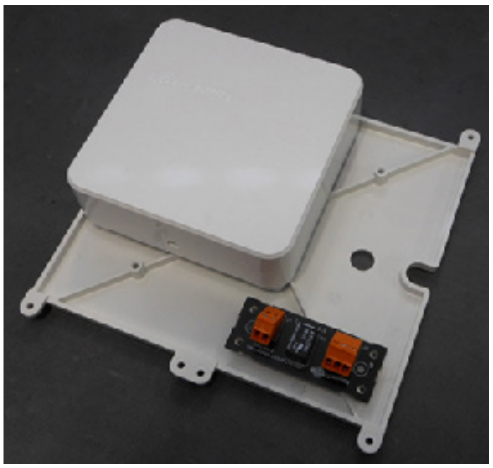
Cable routing

1. Install and route the system and power cables through either the centre hole or the breakout in the lower right of the cover.



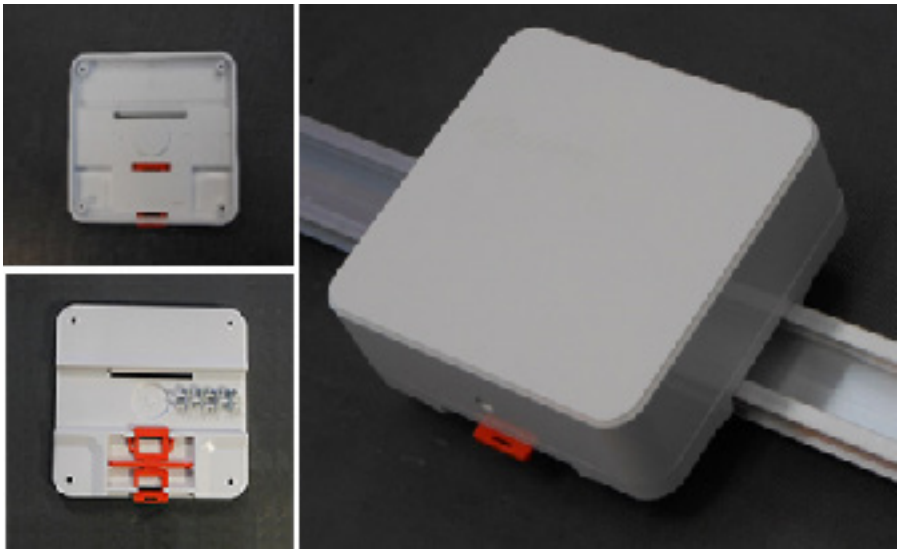
Installing on a mounting plate

1. The Controller is mounted in two different locations using 4 corner screws. Screws are provided with the mounting plate to attach the Controller.

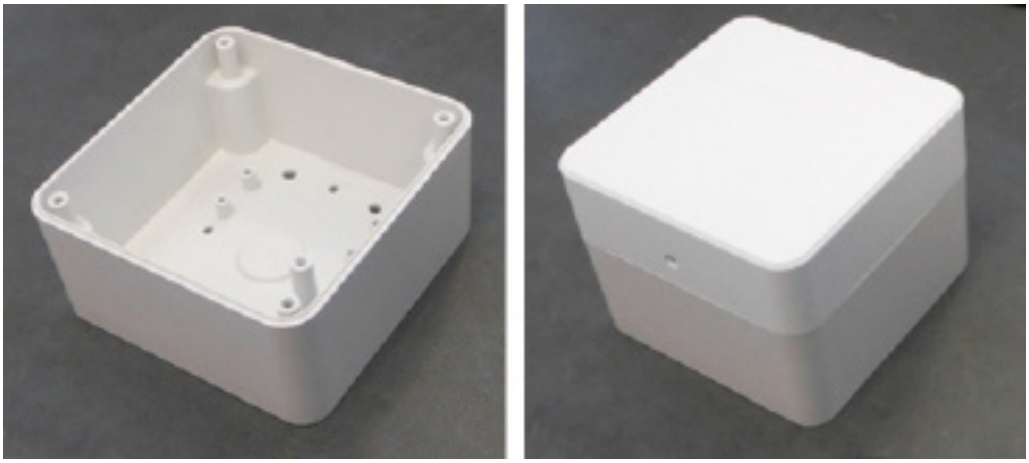
Installing on a DIN rail adapter

1. The Controller is mounted to the DIN rail adapter with four corner screws. The screws are provided with the adapter.



Installing on a mounting block

1. The Controller is mounted to mounting block with 4 corner screws and tamper extension screw. The screws are provided with the mounting block.



Command Centre support for Controller software

The version of Controller software needs to be compatible with the version of Command Centre software, (e.g. vEL8.80 of Gallagher Command Centre requires vCR8.80 of Controller code). Therefore, if your site has an earlier version of Command Centre installed than the Controller version, you will need to downgrade the Controller software to the appropriate version, using the following procedure:
Note: 8.70 is the earliest version Controllers can be downgraded to. Version 8.70 Command Centre requires 8.70 Controller code, (i.e. 8.xx is not sufficiently compatible).

1. If the required Controller version does not already exist in your Command Centre Device Software List Window, browse on your Command Centre installation media to find the compatible Controller software, (e.g. vCR8.xx.xxxxxxx.gglsec).

2. Create a new Controller Device Software item using the software found in Step 1.
3. Assign this software to your new Controller. The download will take approximately two minutes. Watch the Event Viewer and when the Controller resets the correct version number should display.

Initialisation

Note: This document covers IPv4 configuration and DIP switch settings. For IPv6 configuration, refer to the document "Command Centre IPv6 Support.pdf" located in the "Documentation" directory on the Command Centre installation media.

Ethernet setup details

Each Controller has a pre-programmed unique Ethernet address (MAC address). When the Controller is connected to the network, the Command Centre server (when configured) will recognise and acknowledge this Ethernet address.

Note: The Command Centre server must be configured to recognise the Controller's Ethernet address, refer to the Command Centre Configuration Client Online Help.

The Command Centre server then transmits the following information to the Controller:

- IP address for the Controller
- IP address of the server the Controller is to communicate with

The Command Centre server can then send data to, and receive data from the Controller.

The Command Centre BootP Service transmits IP addresses to Controllers.
The Controller and BootP Service uses DHCP style IP broadcast packets to transmit a DHCP request and response. This will only function within the network where such packets are routed which is generally only on the same subnet as the Command Centre Server machine and often routers and switches may block such packets.

Procedure to receive an IP address from the server

1. Check the power and Ethernet cabling to the Controller is correctly connected.
2. Locate DIP switch 2 on the Controller. Set DIP switch 2 to ON.
3. Switch on power to the Controller. The Run LED flashes in the following sequence:
   (The sequence completes fairly quickly but it is important you ensure the LED finishes indicating the normal running sequence.)
   - The red LED flashes fairly fast during startup.
   - The red LED flashes three times per second. The Controller is waiting for its IP address.
   - When the Controller has received its IP address, the Run LED flashes twice per second. This indicates the Controller is waiting for database information to be downloaded from the server.
   - When initialisation is complete, the LED flashes approximately once per second indicating a normal running sequence.

   Note: The topic titled "Run LED Diagnostic Indications" (later in this document) details the different meanings of the various flash sequences.

4. Locate DIP switch 2 on the Controller. Set DIP switch 2 to OFF.
5. Perform a reset override on the Controller from Command Centre, to ensure DIP switch 2 is registered as OFF and to disable access to the Config web page.

Assigning an IP address manually via a web browser

When the Controller is powered up with DIP switches 2 and 3 ON, the Controller uses the following default addresses:

Controller IP: 192.168.1.199
Server IP: 192.168.1.198
Gateway: 192.168.1.198
Subnet: 255.255.255.0

This enables installers to configure a PC with an IP address in the same subnet as the Controller, and by setting DIP switch 1 to ON, connect a web browser to the Controller's Config web page and assign the desired addresses for the site.
Note: The installer's PC IP address should be different from the Controller's IP address, (i.e. not 192.168.1.199).

Follow the steps below to manually assign a Controller's IP address:

1. Set DIP switches 1, 2 and 3 to ON.
   Note: DIP switch 2 should remain ON, until the Controller's Run LED is in a 1 flash state (refer Step 14).
2. Reset the Controller by cycling the power.
3. Wait for the Controller's Run LED to enter a 2 flash state, and set DIP switch 3 to OFF.
4. Open an internet browser.
5. In the Address field enter the IP address of the Controller as follows: http://192.168.1.199/config.
6. Press the Enter key on your keyboard. The Enter Network Password screen displays.
7. Enter config for the 'User Name' (all in lower case) and CardaxFT for the 'Password'.
8. Click the OK button. The Gallagher Controller Configuration screen displays.
9. Click the link LAN Configuration page to allow the Controller's IP addresses to be changed and saved.
10. Select "Static IP Configuration".
11. Enter your new IP address and Command Centre server IP address details, then click the Save button.
12. Disconnect the Controller from the installer's PC, then connect the Controller to the network that will allow communication to the Command Centre server.
    Note: It is safe to remove power if the Controller needs to be moved. DIP switch 2 & 3 should be turned OFF before moving the Controller (and maybe cutting power).
13. The Controller's Run LED flashes in the following sequence:
    a. When you have updated the Controller's IP address, the Run LED flashes twice per second. This indicates the Controller is waiting for database information to be downloaded from the server.

b. It may be necessary to update the Controller's software in order to complete initialisation. Refer to the topic "Device Software" in the Command Centre User Guide for instructions on how to perform this.
c. Some Controller software updates will also update the Controller's operating system files. If this occurs the Controller will restart during the update process. If a restart does occur it will be necessary to reconfigure the Controller's IP again by repeating steps 1 to 12.
d. When initialisation is complete, the Run LED flashes approximately once per second indicating a normal running sequence.

14. Once the Controller's Run LED flashes in a 1 flash state set DIP switch 2 to OFF.
15. If web browser access is no longer required, then DIP switch 1 should also be set to OFF.

Replacing a controller

The Controller will be at default firmware when first connecting to Command Centre. Ensure that the Software version is at -- None Selected -- before connecting the Controller and DIP switch 2 is ON.

The Controller needs DIP switch 2 to be ON when connecting to the server until the RUN LED is in 1 flash and at the correct firmware.

Removing the Controller

Follow the steps below to remove the Controller from the Cabinet:

1. Ensure that the power to the Controller is switched off and disconnected.
2. Wait for the Run LED to stop flashing.
3. Following full antistatic precautions, disconnect all cables from the Controller.
   Hint: Label each cable as you remove it.
4. Remove the securing screws that hold the Controller in place.
5. Carefully lift the Controller clear of the Cabinet.

DIP switch settings

The table below describes DIP switch settings for Controllers. Default settings are in bold text:

DIP switch	Setting	Meaning
DS1	ON	Controller will accept WWW connections.
	OFF	**Controller will reject WWW connections.**
DS2	**ON**	**Initialise. On startup all site-specific data including configuration, site encryption keys and events are securely removed. The Controller uses DHCP with a DHCP server or BootP with Command Centre server to get a new IP address.**
	OFF	Normal Startup - Configuration will be retained.
DS3	ON	When DS2 is on in conjunction with DS3, the Controller will use the default IP address configuration as per the topic "Ethernet setup details".
	OFF	**Controller will wait for IP configuration from the Command Centre server depending on DS2 setting.**
DS4	ON	Controller will reject IP address offers from standard DHCP servers. This should be switched on if you want to use Command Centre's BootP Service to configure the Controller's IP address and there is a DHCP server present on the network.
	OFF	**Controller will accept IP address offers from standard DHCP servers.** **Note:** DS4 must be OFF for Controllers running pre-8.90 firmware, otherwise the Controller will not work correctly.
DS5	ON	For factory testing only.
	OFF	**On startup, the main application is run.**
DS6	**OFF**	**Unused.**
DS7	**OFF**	When DS2 is on in conjunction with DS7, the Controller will attempt to connect to Command Centre over the internet (OneLink). See the topic *"OneLink Configuration"* in the Command Centre Configuration Client Online Help.
DS8	**OFF**	**Boot normally.**
	ON	There is no factory default version of the operating system retained on the Controller. DIP switch 8 will revert to the prior software if performed within one hour of an upgrade but still clear all configuration, events and alarms.

Run LED diagnostic indications

The Run LED flashes to indicate the operating status of the Controller as detailed below:

Note: The Run LED can be configured to be OFF when the cover is on (via a setting in Command Centre).

LED	Sequence timing	Meaning
Initialisation flashes	Constant ON	U-boot loading.
	Rapid flash: 100ms on, 100ms off	DIP switch 8 recovery.
	Constant ON	Linux kernel initialisation.
	500ms on, 100ms off, 250ms on, 1s off	Kernel booting the RAMFS.
	750ms on, 50ms off	When the init scripts in the squashfs start running.
	130ms on, 120ms off	Initialising Main Controller Application.
1 Flash	500ms on, 500ms off (1Hz flash)	Normal running.
2 flashes	2 flashes - pause (each flash is 50ms on, 400ms off, 1.2 s pause)	Controller has a valid IP.
3 Flashes	3 flashes - pause (each flash is 50ms on, 400ms off , 1.2 s pause)	Controller requires an IP address - Ensure BootP Service (CCFTBPS.exe) is running, the Controller is configured correctly, and it is connected to the network.
4 Flashes	4 flashes - pause (each flash is 50ms on, 400ms off, 1.2 s pause)	No certificate loaded.
5 Flashes	5 flashes - pause (each flash is 50ms on, 400ms off, 1.2 s pause)	Invalid certificate loaded.
6 Flashes	6 flashes - pause (each flash is 50ms on, 400ms off, 1.2 s pause)	• The Controller data is corrupted and a factory reset is required, OR • Waiting for DIP switch 8 to be turned off.
Short Flash	100ms on, 250ms off	DIP switch 5 ON.
Reset Flash	400ms on, 100ms off	Reset.
Crash Flash	50ms on, 400ms off, 1.2 s pause	Main Controller Application has crashed and a core dump is in progress.
4 Long Flashes	1000ms on, 100ms off, 2000ms pause	Hardware failure.
802.1x Error (3 Quick Flashes)	1000ms on, 50ms off, 50ms on, 50ms off, 50ms on, 1.2s pause	Controller could not authenticate to the network using 802.1x. Verify the network authentication settings, credentials, and network connectivity.

Technical specifications

Measurement	Value		
	DC configured power source	**PoE+ configured power source** (Not UL2610 compliant)	
Source Input Type	13.6 ± 15% Vdc	PoE+ (802.3at Type 2)	PoE (802.3af or 802.3at Type 1) (not UL compliant)
Voltage out	13.6 ± 15% Vdc	13.6VDC	13.6VDC
Controller board only load	0.3A	3W/0.3A	3W/0.3A
Battery Charge output	N/A	13.6VDC @ 2.7W/0/2A	13.6VDC @ 2.7W/0/2A
Total Allowance output load (inc. battery charge)	1.5A	20.4W/1.5A (UL294 limit: 16.3W/1.2A)	13W/0.6A
Total max load	1.8A	23.4W/1.8A (UL294 limit: 19.3W/1.5A)	14.9W/1.1A

Output limits	**Reader/RS485**	**Relay +ve out (both combined)**
- Amp/Watts	0.5A / 6.8W	1A / 13.6W
- Fuse	0.6A	1.2A

Outputs	
- Relay Contacts	Contact Rating 3A resistive load, 1A inductive load at 24VAC/VDC
- Auxiliary Output (open collector):	-ve switched +ve total load: 0.5A/6.8W 13.6 ± 15% Vdc
Aux Output rating	0.5A
Operating Temperature	-10°C to +50°C (14°F to 122°F)
Humidity	95% non-condensing
RS485 port	1
10/100BaseT Ethernet port	1 x 10 Mbs/100 Mbs
Dimensions	Height 115mm (4.5 in) Width 115mm (4.5 in) Depth 33mm (1.3 in)
Weight	230g (8.5 oz)
Standards and compliance	FCC, RCM, CE, UKCA, RoHS, SSF1014 - Alarm Class 3

UL Installations	* PoE configured power source cannot be used for Commercial Intruder alarm Standard, UL2610. PoE is compatible with UL294 (Access Control). * UL has evaluated UL 60950-1, and/or 62368-1 compliant PSE's Altronix Netway 1 for UL 294. The installer must provide a UL 60950-1, and/or 62368-1 compliant PSE. * UL has evaluated LifeSafety Power cabinets, E5 and E6 enclosure. If an enclosure is required,the installer must provide UL listed enclosure with tamper protection, with a Netway 1E PoE injector secured to the back plate with compatible mounting bracket accessories. * For Class Level IV requirements, refer to UL configuration guide (3E2793). Comment Endurance & stand-by. * Wire leads for RS485 Com lines need to limit this to 98 ft, 30 m. * UL has evaluated HID Model RP10 Wiegand readers for Wiegand operation with the Wiegand Controller. * Shall be powered via a UL 294/ UL 2610/ C1076 power supply with min 4 hrs of standby power. * UL has not evaluated this as a Fire device part of a Fire Alarm system. For other UL related information/limitations refer to the document appropriate to your location: - *"3E2793 Gallagher Command Centre UL Configuration Requirements"* (for USA), or - *"3E5960 Gallagher Command Centre ULC Configuration Requirements"* (for Canada)
	UL294 - Access Control UL2610 - Commercial Burglary CAN/ULC S304- Commercial Burglary * CAN/ULC 60839-11-1- Access Control * * The PoE variant is not evaluated to the above Canadian standards.
	This symbol on the product or its packaging indicates that this product must not be disposed of with other waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city recycling office or the dealer from whom you purchased the product.
FCC	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. **Note:** Changes or modifications not expressly approved by Gallagher Limited could void the user's authority to operate this equipment.

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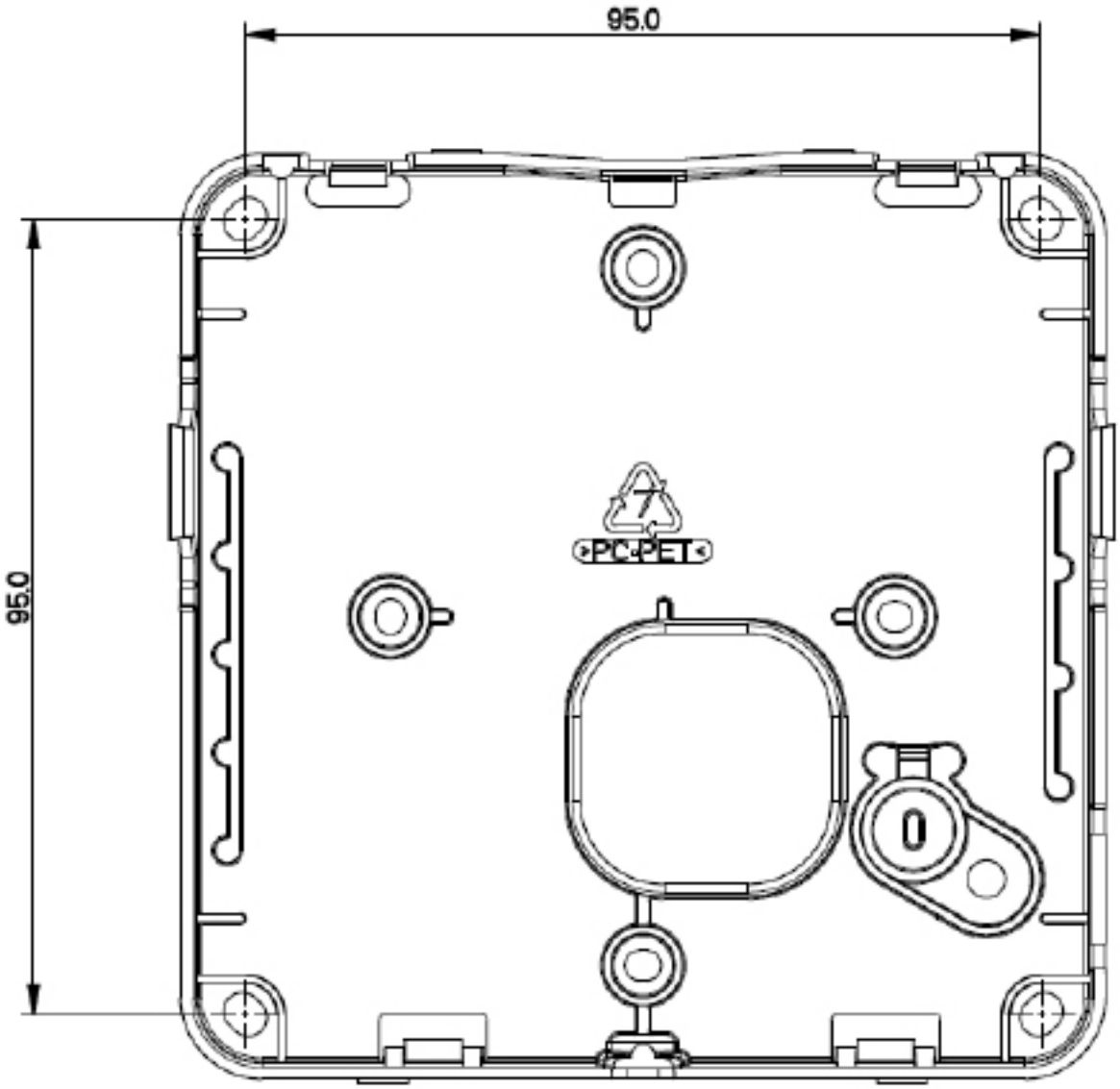
Mounting dimensions



IMPORTANT:

This picture is not to scale, therefore use the measurements provided.