CEM SYSTEMS
From Tyco Security Products

S700e™

Quick Installation Guide

This guide contains the basic instructions for installing the S700 intelligent access terminal.

For a complete description of the S700 and its features, refer to the Technical Product Specification at: http://www.cemsys.com/S700

Specifications

Required tools

Hex security screwdriver	Size H20	Flat head screwdriver	2.5 mm
Pozi head screwdriver	Size PZ1	Flat head screwdriver	3.0 mm

Part	Rating
Supply Voltage (Vdc)	9 to 28
Power (W)	Typcial: 2.4 / Peak: 4.8
Inputs	Four analogue inputs - voltage supplied
Comms to exit reader	RS485 serial comms / Wiegand protocol
Comms to system host	10/100 Base-T TCP/IP CAT6 / RS485 serial comms
Dry contacts output	24 Vdc @ 2 A
Operating temperature (°C)	-20 to +70 (-4 °F to +158 °F)
IP rating	IP65

1 Software Setup

Adding the device to AC2000

1. Open **AC2000 | Device Configuration | Devices**.
2. In the left pane, expand the **Controller** to which the terminal is being added.
3. Right-click the appropriate **Device Group** and select **Add Device**.
4. From the **Device Type** drop-down list, select the S700 model to install.
5. From the **Configuration Mode** drop-down list select the setting that matches your hardware setup.
6. From the **Device Number** drop-down list select a device number.
7. Enter a unique description for the device in **Device Location** .
8. Enter the **MAC Address** of the device. To display the MAC Address on the terminal select ***System Information | Network***.
9. Enter the **IP address** of the device.
10. Click **Add** to complete the setup.

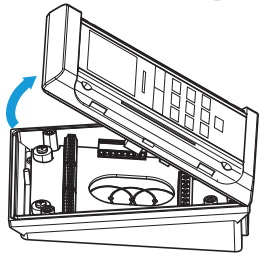
Configuring device inputs

If inputs are used to trigger alarms or events in AC2000 AED they must first be configured in the AC2000 Devices application. For more information, see AC2000 Setup Guide.

Card definitions

Ensure that the correct card definition for the chosen card technology is loaded on the CDC.

2 Mounting the Terminal

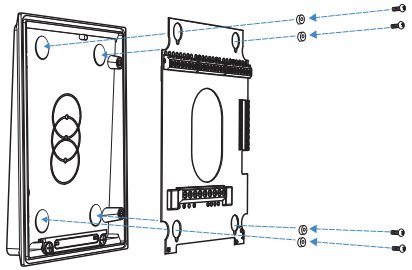


Opening the terminal

1. Set the terminal on a level surface.
2. Remove the four screws using a hex security screwdriver.
3. Remove the front part of the terminal, pivoting at the base.
4. Disconnect the ribbon cable from the I/O board.

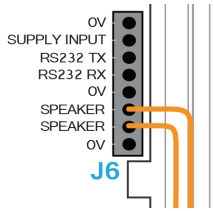
Removing the I/O board

1. Remove the four screws and spacers using a Pozi head screwdriver.
2. Remove the two yellow internal speaker wires from connector J6 on the I/O board.
3. Lift the I/O board away from the back casing.
4. Drill the cable access holes using the guides on the back casing.
5. Drill the holes on the terminal casing to match the back box fixture points.



Mounting the back casing to the back box

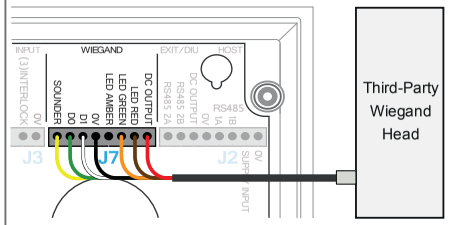
1. Using the drilled mounting holes, screw the back casing to the back box.
2. Screw the I/O board to the back casing, ensuring to replace the spacers.
3. Connect the internal speaker to the I/O board. The yellow speaker wires can be wired to the J6 speaker terminal in any order.



3a Wiring Configuration: S700e Host + S700s Exit

WIRING NOTES

Third-Party Wiegand Readhead



Fail-safe Lock

If the terminal loses power, a fail-safe lock opens allowing free access. Therefore, a lock that is constantly powered, such as a maglock, must be used.

Fail-secure Lock

In fail-secure configuration, if the terminal loses power, the lock remains closed. A lock that requires power to open, such as a mortice lock, must be used.

DC Output

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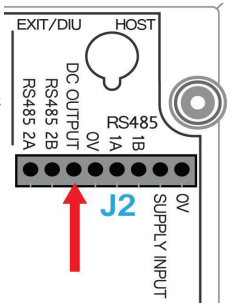
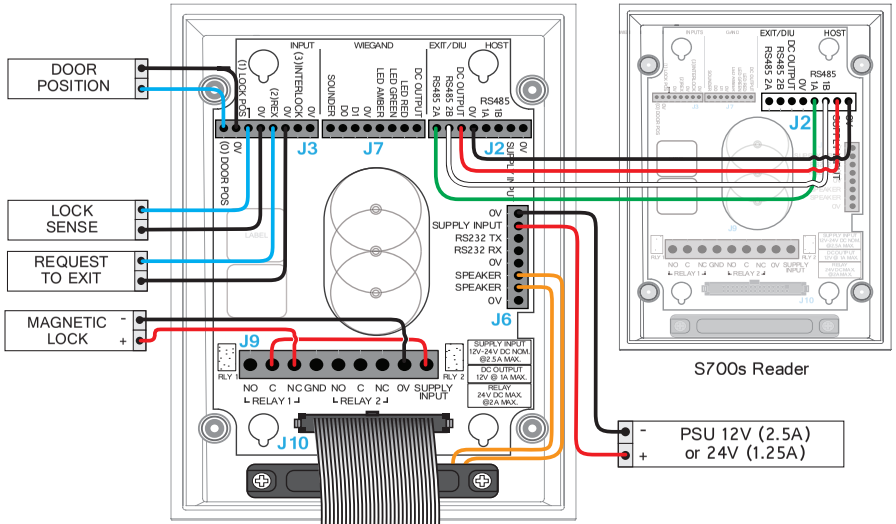
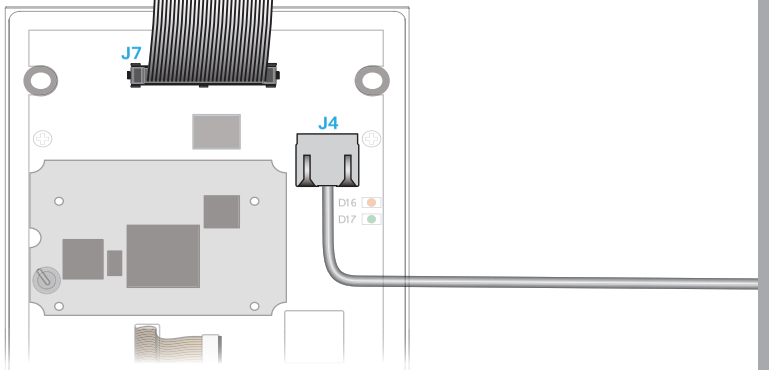
The terminal labelled DC OUTPUT can **ONLY** be used as an output to power other devices, such as exit readers and third-party Wiegand readheads.

DO NOT connect a power supply to this terminal.



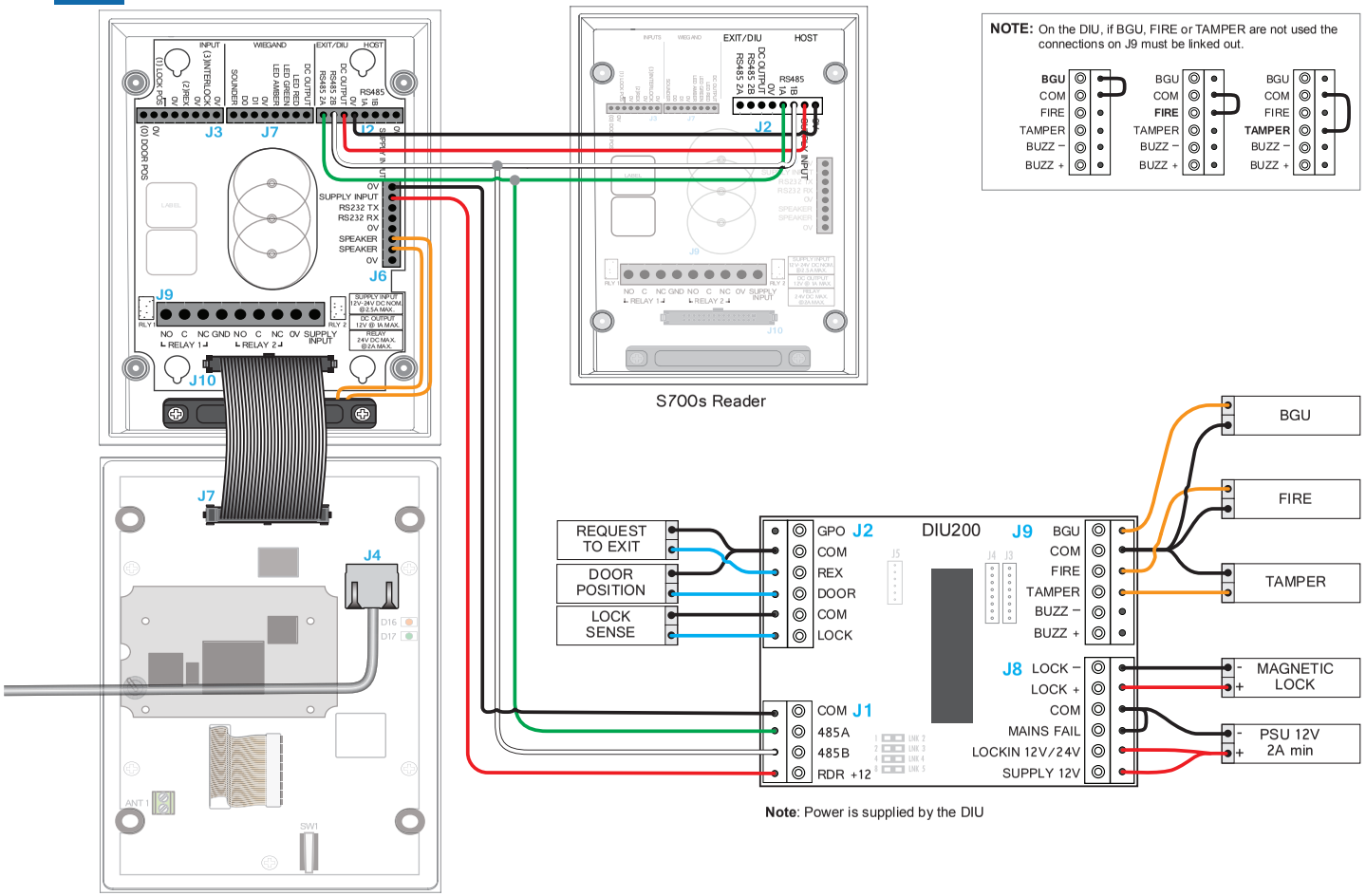


S700s Reader



S700e Reader

3b Wiring Configuration: S700e + DIU200 + S700s



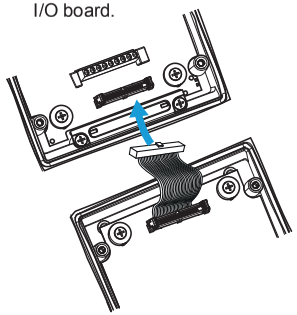
NOTE: On the DIU, if BGU, FIRE or TAMPER are not used the connections on J9 must be linked out.

Note: Power is supplied by the DIU

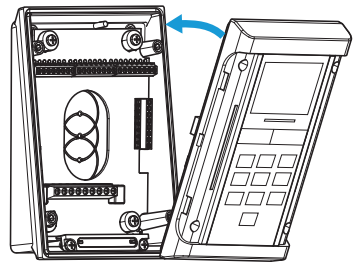
4 Re-assembling the Terminal

Care should be taken when re-assembling the terminal. The front case should not be left hanging from the ribbon cable while attached to the back case. Ensure there is adequate network cable length to reach the connectors.

1. Connect the ribbon cable to the I/O board.

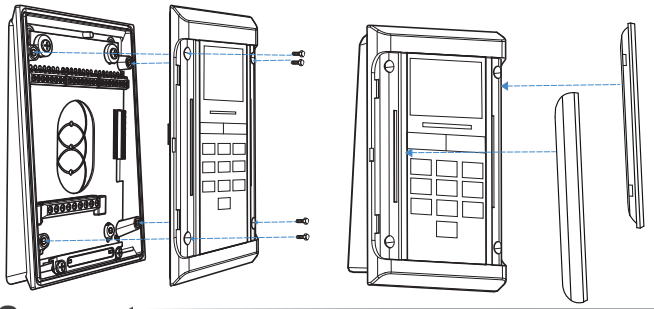


2. Ensure the large case o ring and the 4 small o rings are in place. Attach the front case to back case.



3. Screw the front casing to the back casing using the four security hex screws.

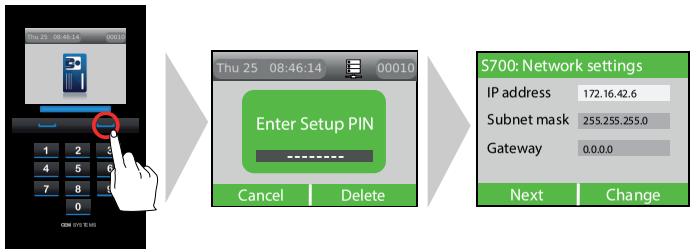
4. Clip the side panels onto each side of the terminal covering each of the mounting screws.



5 Configuring the Network

Setting the terminal IP address, Subnet mask and Gateway

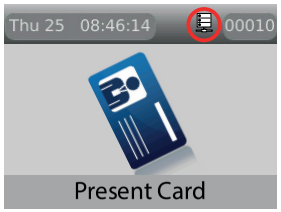
1. On the terminal keypad, quickly tap the right function key at least three times.

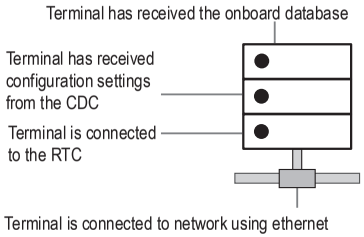


2. Enter the pass code **67670000** to access the **Config Menu**. After the AC2000 system setup is complete, the pass code is 6767XXXX, where XXXX is the code set by the system administrator in **Device Configuration**.
3. To access the **Network Settings** menu, press key 5.
4. Select **Next** to highlight the relevant field.
5. Select **Change** to edit the selected field.
6. Enter the **IP Address**, **Subnet** and **Gateway** settings using the keypad. Press the left function key for a '.'
7. To exit settings, press key 0 and select **Save** to save the new settings, or **Quit** to discard changes.

Checking network status

The network status is continuously displayed on the home screen of the reader.





The terminal is now connected to the AC2000 system and ready to use.

Support

For more information on the S700, consult the following resources.

Datasheets	http:www.cemsys.com/S700
Installation Manual	http:www.cemsys.com/support
User Guide	http:www.cemsys.com/support

Sales
cem.sales@tycoint.com

Technical Support
Tel: +44 (0)28 90 456656

Safety and Regulatory Information

WARNING - For FCC labelled S700 Terminals

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 an interference received, including interference that may cause undesired operation.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be collocated or operating in conjunction with any other antenna or transmitter.

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

Installation of this device shall be performed by a qualified person in accordance to all local regulations.

This system must be installed within the protected premsie in accordance with the National Electrical Code (NFPA70), and the local authorities having jurisdiction.

Equipment changes or modifications without the approval of the party responsible for compliance could void the user's authority to operate the equipment and could create a hazardous condition.