AES Global STYLUS-AUD-4.3-US StylusCOM Audio Hardwired System Installation Guide

Contents

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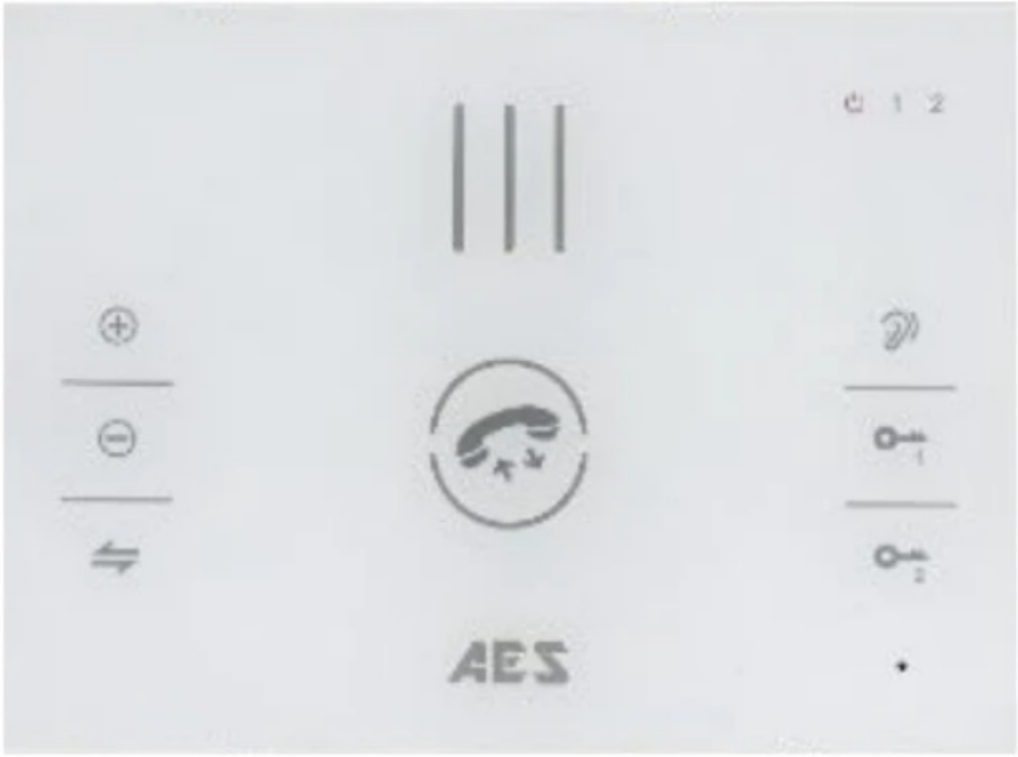


Product Information

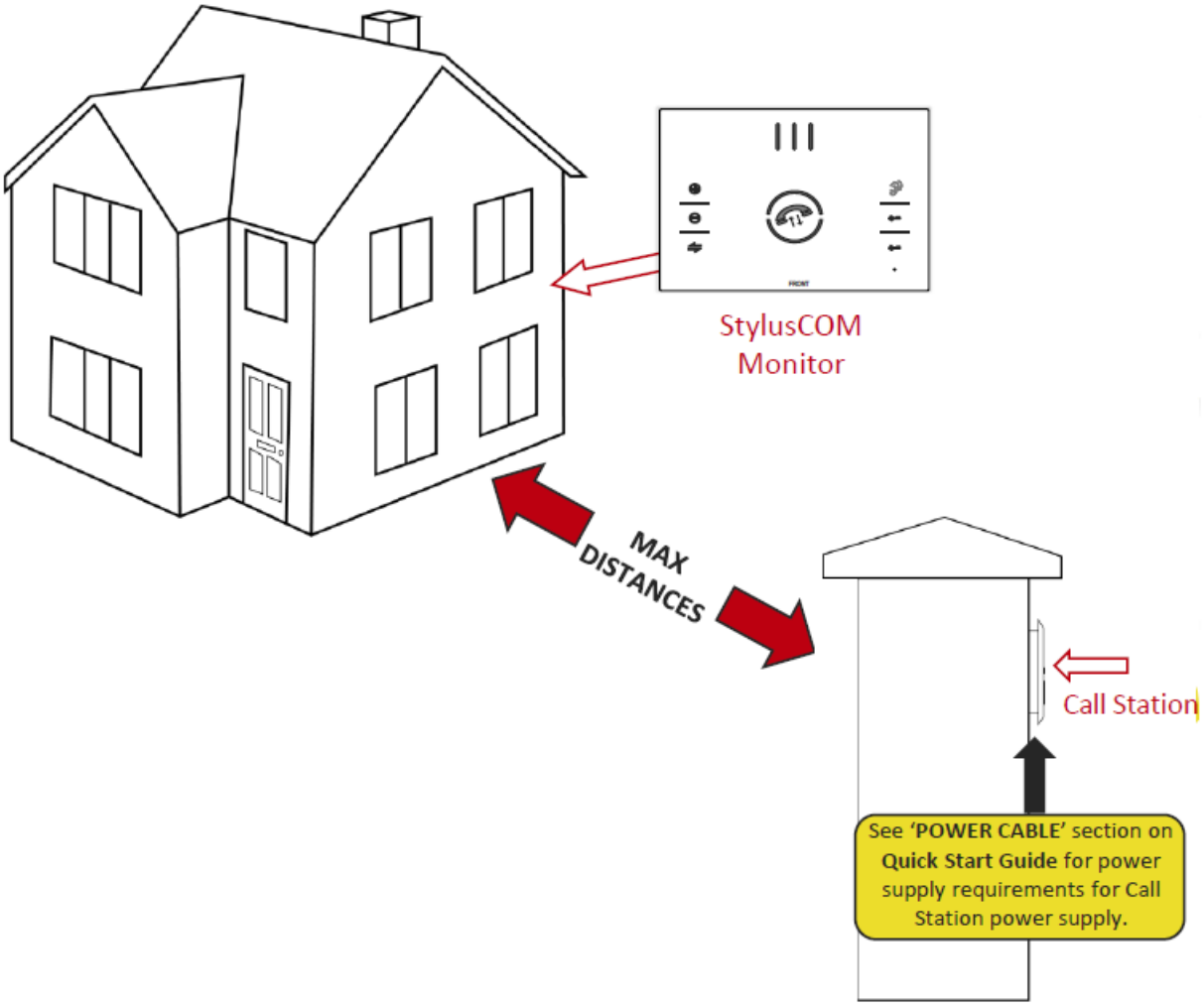
The StylusCOM Audio – Hardwired System is a comprehensive audio monitoring system designed for property security. It includes StylusCOM monitors, a call station, and optional programmable keypad. The system is capable of operating on various sites and provides an IP55 rating for protection against ingress.
The system requires a power supply for operation. It is recommended to use the provided 24v power supply for the StylusCOM kit. In case of greater distances or multiple monitors, additional power supplies may be required (sold separately). It is important to avoid using CAT5 or alarm cables for powering the unit as they are not rated to carry enough power.
The system features surge protection for the power supply, especially in lightning-prone areas. Sealing instructions are provided to maintain the IP55 rating and prevent issues caused by insects.
For further assistance, resources such as web chat, fullv manuals, customer helpline, videos, how-to guides, and quick start guides are available on the website **www.aesglobalus.com**. Additionally, customer support can be reached at +1 (321) 900 4599.

Product Usage Instructions

1. Before installation, fully test the system on-site to ensure it is capable of operating on the desired site. Power on the system and place the monitors in their expected locations around the property. Test that everything is working before mounting any items to the walls.
2. For power supply requirements for the call station, refer to the “POWER CABLE” section in the Quick Start Guide.
3. In areas with greater distances or multiple monitors, additional power supplies may be required. Refer to the wiring diagram and additional information for maximum monitor distances and power requirements.
4. Seal all entry holes to prevent insects from causing issues and risk component shorting.
5. If using the optional programmable keypad, refer to the “KPX1200 GUIDE” on the website for programming instructions and extensive features.
6. Ensure proper relay connections for the gate controller, door lock, etc. Refer to additional diagrams for relay connections.

ALWAYS FULLY TEST THE UNIT ON-SITE BEFORE INSTALLATION TO AVOID RESTOCKING FEES

WIRING DIAGRAM



TIP:
To achieve greater distances shown in '2x Dual Power Supply' a separate power supply is required (sold separately).

1x Single Power Supply :

- CAT5 Cable – 130m
- Poly/Poly Underground – 30m
- Multi-pair telephone wire – 30m

2x Dual Power Supply :

- CAT5 Cable – 300m
- Poly/Poly Underground – 150m
- Multi-pair telephone wire – 50m

LIGHTNING-PRONE AREAS MUST USE SURGE PROTECTION FOR POWER SUPPLY!

SITE SURVEY

RESTOCKING FEES MAY APPLY IF RETURNED AFTER INSTALL DUE TO SITE ISSUES. PLEASE SEE FULL T&C'S ON OUR WEBSITE

TIP: It is recommended that the system be fully tested on site BEFORE installation. You must test to ensure that the system is capable of operating on the desired site. Power the system on and place the monitors in their expected locations around the property and then test that everything is working BEFORE mounting any items to the walls

Please read this entire manual before installing this product. A full comprehensive manual is available on our website for additional information.

POWER CABLE

TIP: Most technical calls received are due to installers using CAT5 or alarm cable to power the unit. NEITHER are rated to carry enough power! (1.2amp peak)

Please use the following cable:

- Up to 2 metres (6 feet) – Use minimum 0.5mm2 (18 gauge)
- Up to 4 metres (12 feet) – Use minimum 0.75mm2 (16 gauge)
- Up to 8 metres (24 feet) – Use minimum 1.0mm2 (14 / 16 gauge)

INGRESS PROTECTION

- We recommend sealing all entry holes for prevention of insects that can cause issues with a risk of shorting out components.
- To maintain the IP55 rating please follow the sealing instructions included. (also available online)

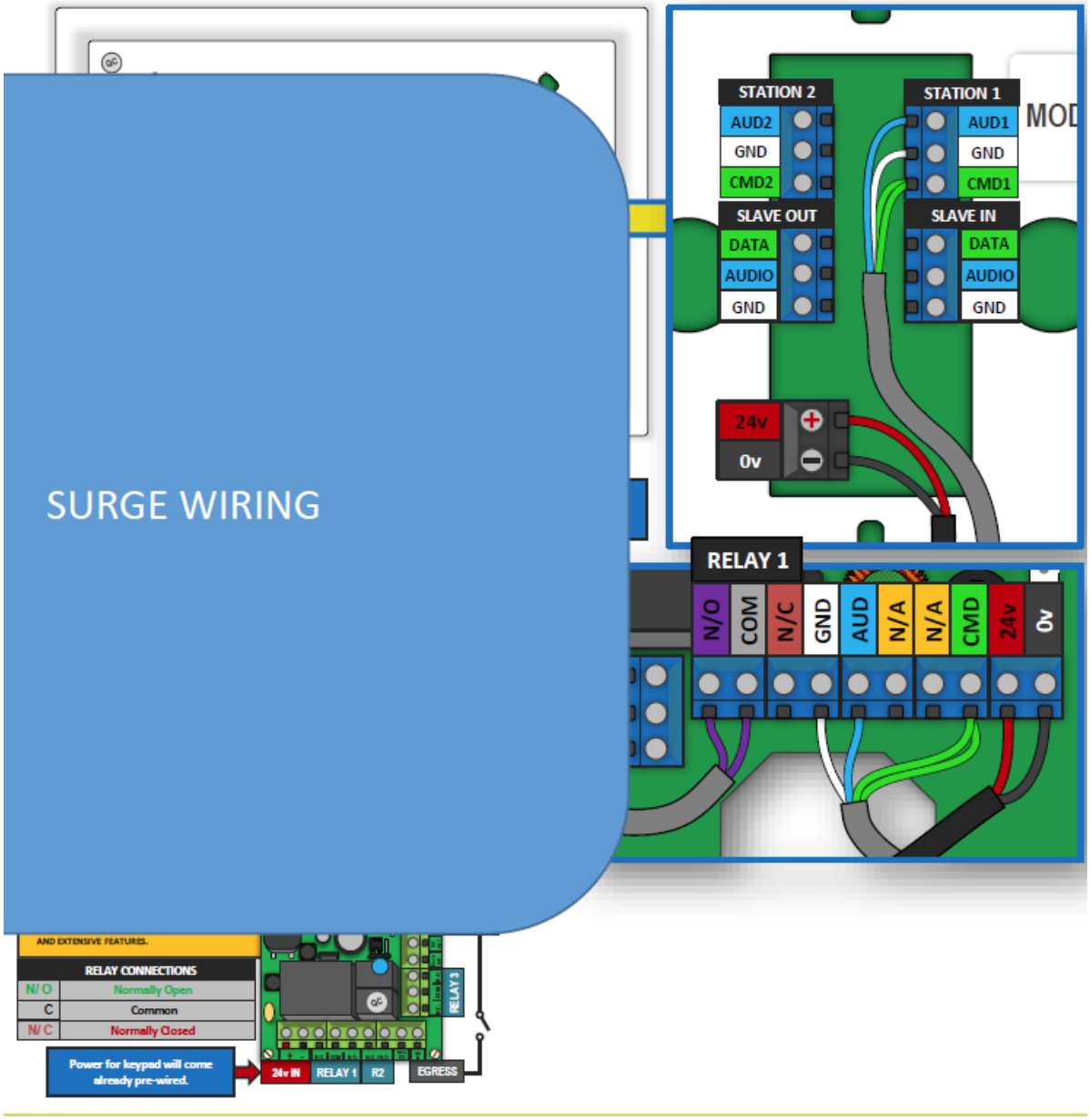
NEED MORE ASSISTANCE?

+1 (321) 900 4599

SCAN THIS QR CODE TO BE BROUGHT TO OUR RESOURCES PAGE.

VIDEOS | HOW-TO GUIDES | MANUALS | QUICK START GUIDES

SURGE WIRING



POWER CABLE

TIP: Most technical calls received are due to installers using CAT5 or alarm cable to power the unit. NEITHER are rated to carry enough power! (1.2amp peak)

Please use the following cable:

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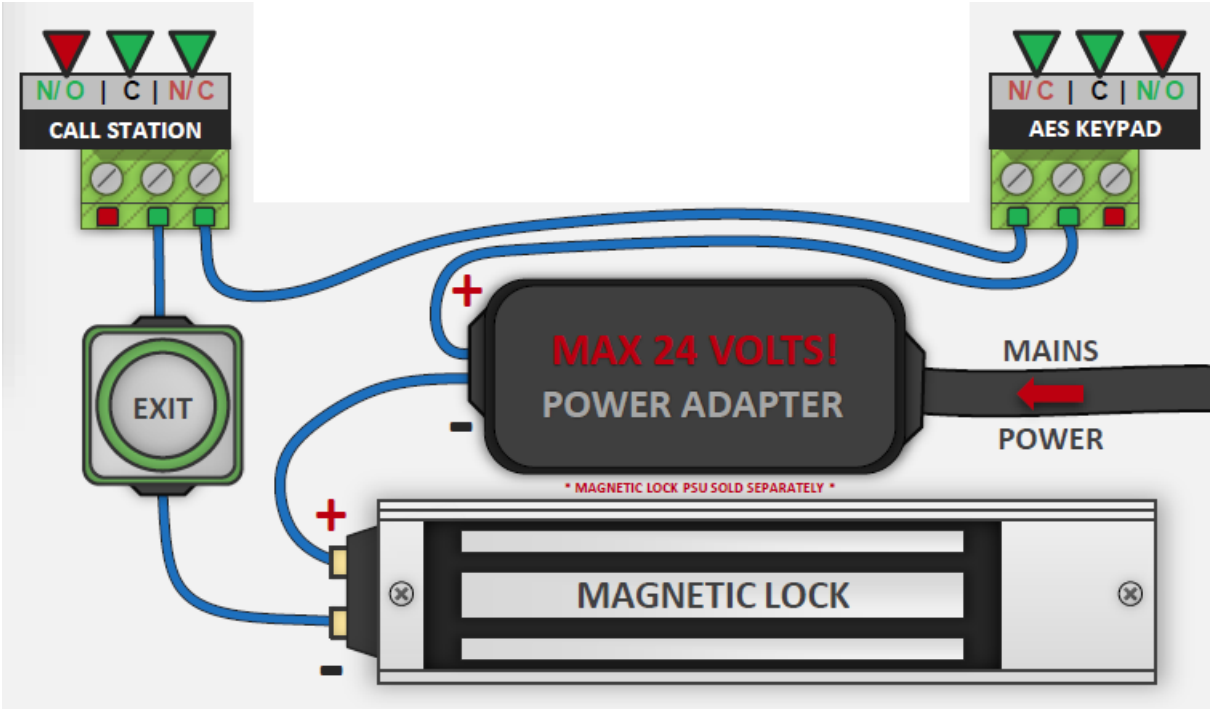
- Up to 8 metres (24 feet) – Use minimum 1.0mm2 (14 / 16 gauge)

OPTIMAL RANGE

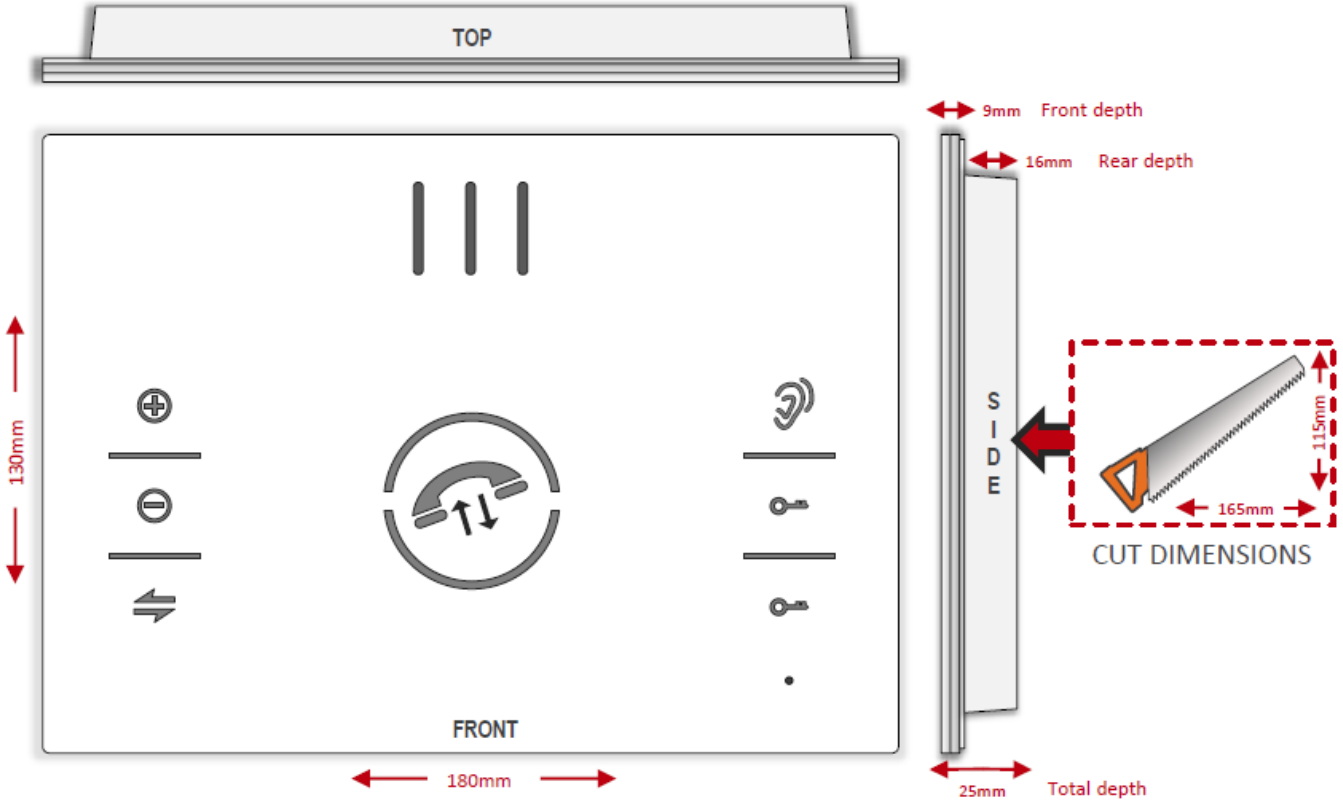
TIP: To get the most range out of the system we would recommend keeping the separate power supply as close as possible to the audio monitor. If chaining multiple monitors together use the SLAVE inputs and outputs – see supplement wiring diagram which will provide more information on the specific requirements and max distances.

MAGNETIC LOCK EXAMPLE

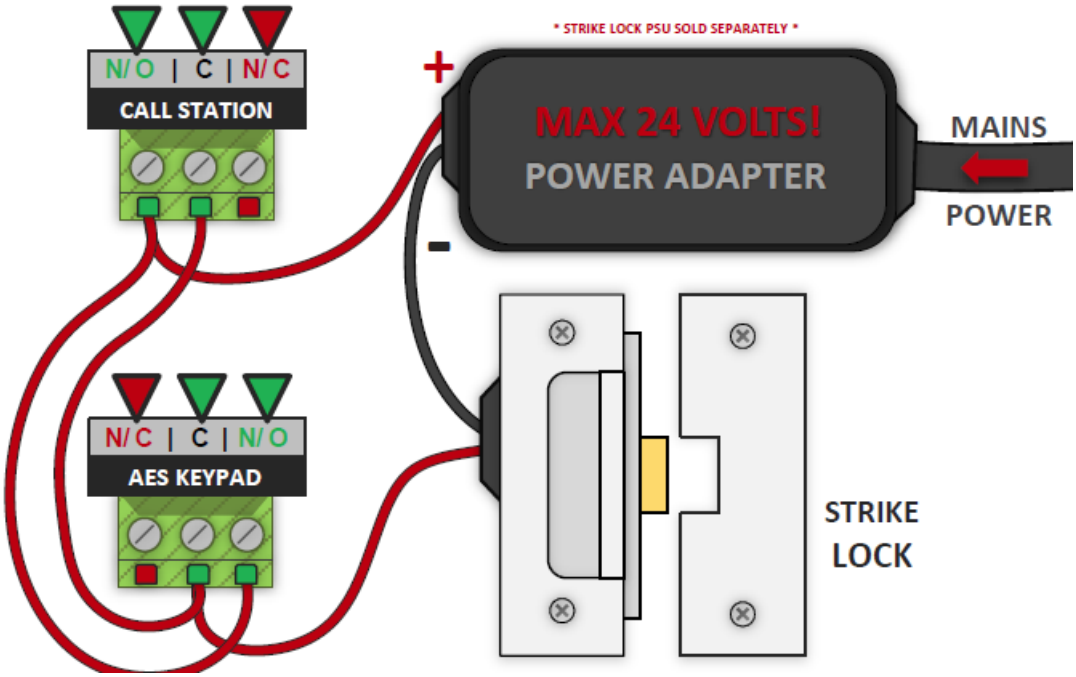


Follow this method when using a magnetic lock. If the relay in either the Call Station or optional AES Keypad is triggered it will temporarily lose power and allow the door/gate to release. For installs without the optional AES Keypad; connect the POSITIVE of the Magnetic Lock PSU to N/C terminal on Call Station Relay

INFORMATION ABOUT YOUR AUDIO MONITOR



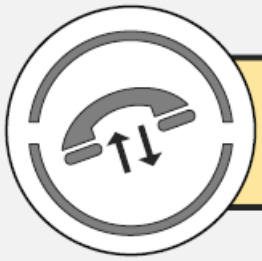
AC/DC STRIKE LOCK WIRING EXAMPLE



Follow this method when using a Strike Lock with the system. If used it will mean that if a relay in either the Call Station or optional AES Keypad is triggered it will temporarily allow the door/gate to release.

Do you require a custom wiring diagram for your site? Please send all requests to **diagrams@aesglobalonline.comand** we will do our best to provide you with a supplement diagram suitable for your chosen equipment.
We are constantly using your customer feedback to enhance all of our guides / learning material for installers. If you have any suggestions regarding this please send any suggestions to **feedback@aesglobalonline.com**

HOW TO USE THE STYLUSCOM MONITOR



ANSWER CALL BUTTON

Tap to answer incoming call.

(tap again to hang up call)

INCREASE IN CALL VOLUME

Tap to increase volume of monitor.

DECREASE IN CALL VOLUME

Tap to decrease volume of monitor.

TRANSFER THE CALL

Tap to transfer the call to other monitor(s).

MONITORING MODE

Tap to listen to the intercom microphone.

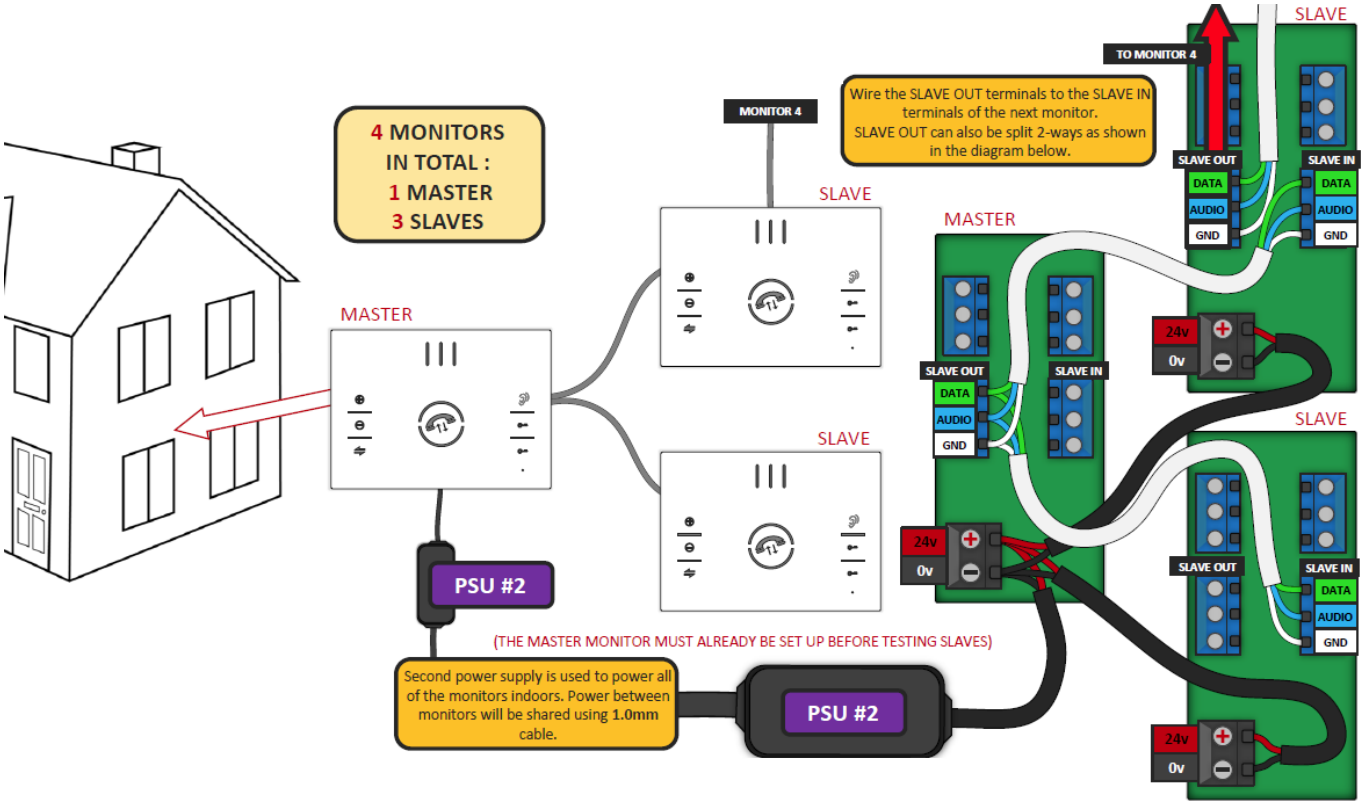
ACTIVATE RELAY 1

Tap to activate Relay 1.

ACTIVATE RELAY 2

Tap to activate Relay 2.

Slave Monitor Wiring Guide



Monitor Power Supply Distances:

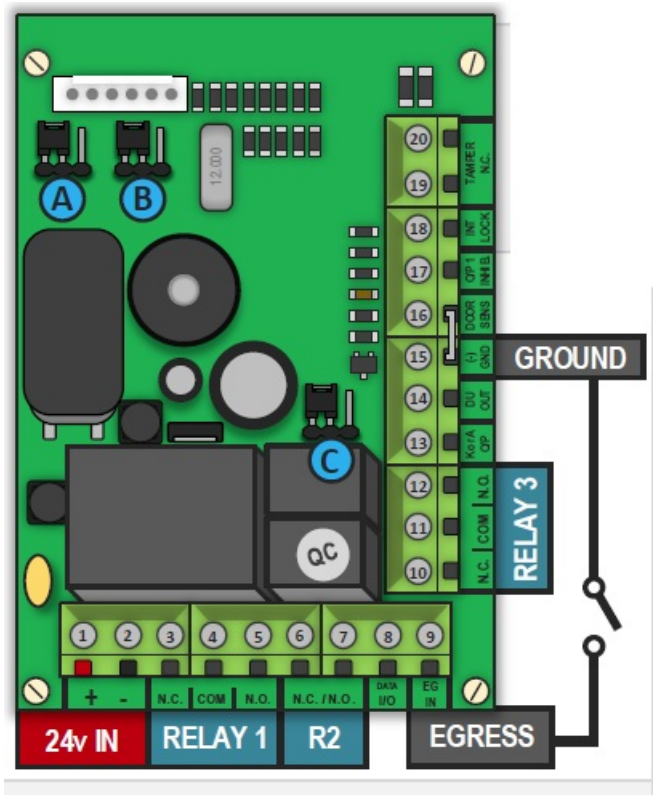
- CAT5 Cable – 8m
- 1.5mm Cable – 15m

(MAX DISTANCE BETWEEN MONITORS)

AES KPX1200 STANDARD OPERATIONS

LEDs ABOVE KEYPAD FRONT

- LED 1 = RED/GREEN. It lights up in RED while one of the outputs is inhibited. It is flashing during inhibition paused. It is also the Wiegand LED for feedback indication and will light up in GREEN.
- LED 2 = AMBER. It flashes in Standby. It shows the system status in synchronization with the beeps.
- LED 3 = RED/GREEN. It lights up in GREEN for OUTPUT 1 activation; and RED for OUTPUT 2 activation

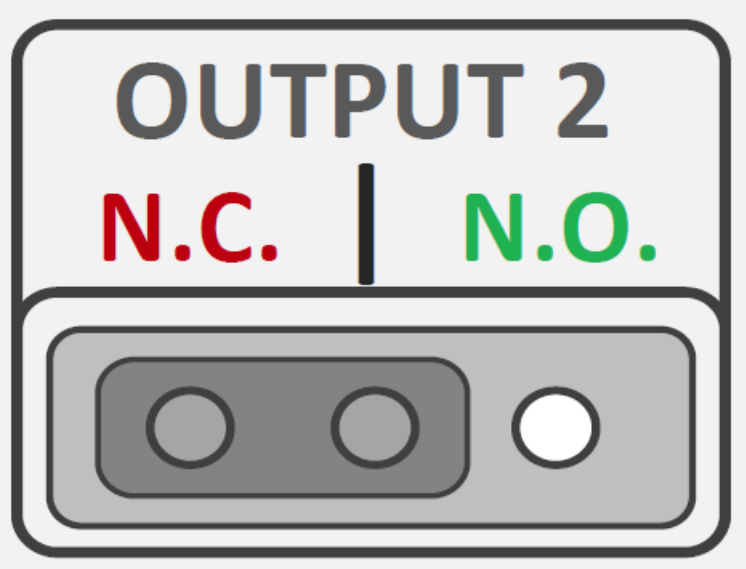


{A} BACK-LIT JUMPER = FULL/AUTO.
FULL – The keypad gives dim backlit in standby. It turns to full backlit when a button is pressed, then back to dim backlit 10 secs after the last button is pressed. AUTO – The backlit is OFF in standby. It turns to FULL backlit when a button is pressed, then back to OFF 10 seconds after the last button is pressed.
{B} ALARM OUTPUT SETTING = (RESOURCES PAGE – ADVANCED WIRING OPTIONS)

{9,15} Egress for PTE (Push To Exit) If you wish to make use of this feature you must wire your PTE switch using terminals 9 & 15 marked as ‘ EG IN ’ and ‘ (-) GND.
Note: The egress feature on the keypad is designed to only activate Output 1. Ensure that the entry you wish to gain access to via the PTE switch is connected to this output. Programmable for Instant, Delay with Warning and/or Alarm Momentary or Holding Contact for Exit Delay.

AES KPX1200 RELAY OUTPUT INFORMATION
{3,4,5} RELAY 1 = 5A/24VDC Max. N.C. & N.O. dry contacts. 1,000 (Codes) + 50 Duress Codes {6,7,C} RELAY 2 = 1A/24VDC Max. N.C. & N.O. dry contacts. 100 (Codes) + 10 Duress Codes (COMMON port is determined by the Shunt Jumper marked as C on the diagram. Connect your device to N.C. and N.O. and then move the jumper to the required position and test.) {10,11,12} RELAY 3 = 1A/24VDC Max. N.C. & N.O. dry contacts. 100 (Codes) + 10 Duress Codes {19,20} Tamper Switch = 50mA/24VDC Max.

RELAY CONNECTIONS	
N/O	Normally Open
C	Common
N/C	Normally Closed



N.C. dry contact.

Did you know?
Extra Prox cards and Prox Tags can be purchased in packs of 10 & 50.
(PROX versions only)

NEED MORE ASSISTANCE?

Please scan this QR Code to be brought to our Resources page where you can find all of our guides and available

resources

SITE SURVEY
TIP: If fitting this keypad as an independent system then no site survey is required. If the keypad is included inside a callpoint then please follow the site survey details included on the main product guide.

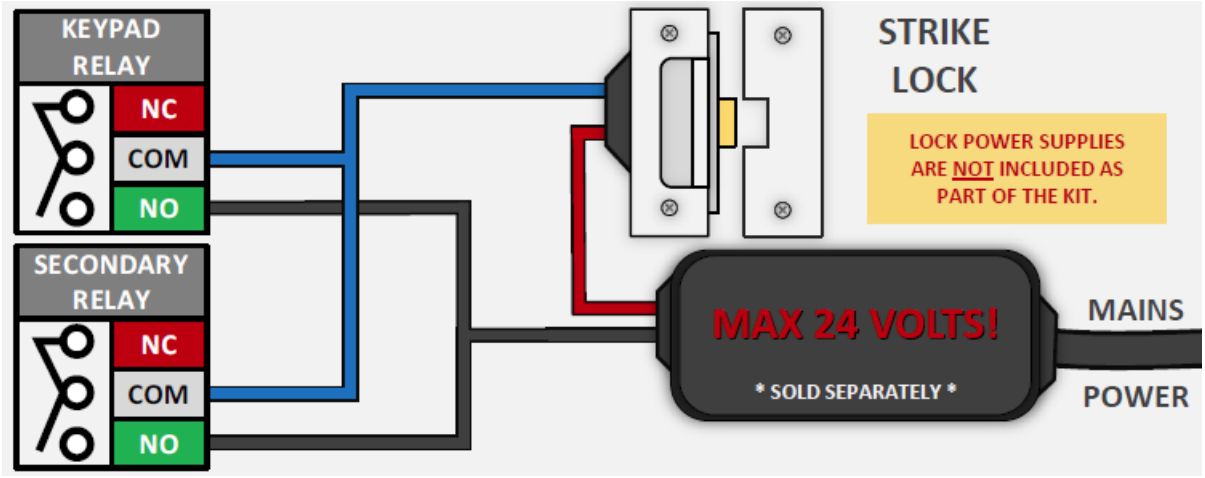
POWER CABLE

TIP: Most technical calls received are due to installers using CAT5 or alarm cable to power the unit. NEITHER are rated to carry enough power! (1.2amp peak)

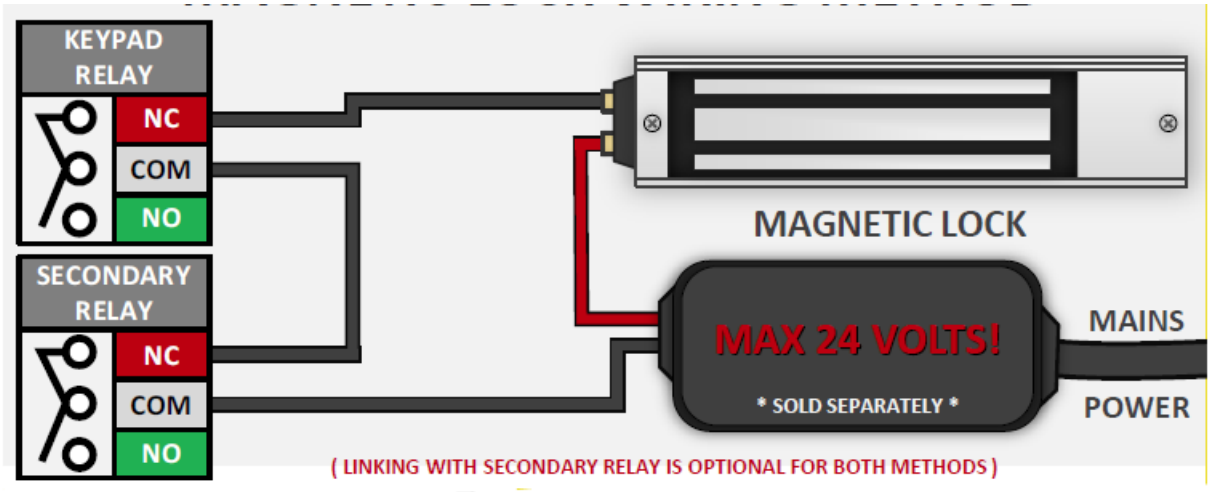
Please use the following cable:

- Up to 2 metres (6 feet) – Use minimum 0.5mm2 (18 gauge)
- Up to 4 metres (12 feet) – Use minimum 0.75mm2 (16 gauge)
- Up to 8 metres (24 feet) – Use minimum 1.0mm2 (14 / 16 gauge)

STRIKE LOCK WIRING METHOD



MAGNETIC LOCK WIRING METHOD



KEYPAD PROGRAMMING

Note: Programming can only begin 60 seconds after powering the device on.

1) Enter programming mode:

0 0 0 0 ➡ * *

DEFAULT PROGRAMMING CODE — ENTER / EXIT PROGRAMMING

The amber LED will remain SOLID once you enter programming mode successfully. Press ** again to leave programming mode.

2) Adding and deleting a new keypad entry code:

1 0 ➡ 2 ➡ 0 0 0 ➡ ? ? ? ? ➡ #

10 = Relay 1 *(1000 limit)*
20 = Relay 2 *(100 limit)*
30 = Relay 3 *(100 limit)*

2 = add
5 = delete

MEMORY LOCATION
000 to 999 = Relay 1
001 to 100 = Relay 2
001 to 100 = Relay 3

4-8 DIGIT CODE

VALIDATE

Note: After using '5' to delete a code just type the memory location followed by #

** This example will add code '????' to location 000 on Relay 1 **

3) Delete ALL of the codes & cards saved in a relay group:

1 0 ➡ 0 9 9 9 ➡ #

10 = Relay 1 *(1000 limit)*
20 = Relay 2 *(100 limit)*
30 = Relay 3 *(100 limit)*

SUPER DELETE CODE

VALIDATE

Note: Take care when deleting full relay groups because once deleted there is no way to restore these previously stored codes to the keypad.

** This example will delete ALL of the codes stored for Relay 1 **

4) Change relay output times & modes:

5 1 ➡ 0 OR 9 9 9 9 9 ➡ #

51 = Relay 1
52 = Relay 2
53 = Relay 3

0 = LATCHING MODE
1-99999 = MOMENTARY TRIGGER TIME (SECONDS)

VALIDATE

** For example: '515#' will set Relay 1 to trigger for 5 seconds **

Note: Setting the relay time to 0 will change all codes for this output to latching codes, re-enter same code again to unlatch.

5) Adding a SUPER user code: (1 MAX)

0 2 ➡ ? ? ? ? ➡ #

LOCATION — 'SUPER' CODE — VALIDATE

Note: You can add one SUPER code as an optional feature which allows a single code to operate all 3 outputs. To use input SUPER code followed by # then 1, 2 or 3 to select.
Example - 5555#2

6) Change the programming code:

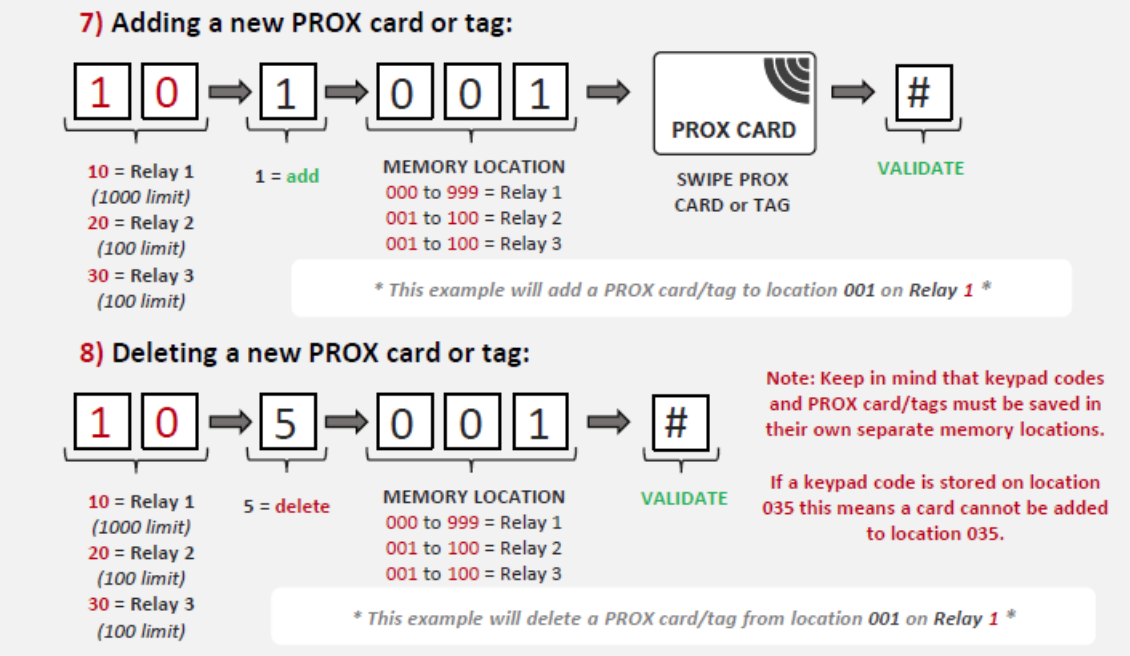
0 1 ➡ ? ? ? ? ➡ #

LOCATION — 4-8 DIGIT CODE — VALIDATE

** ALWAYS MAKE NOTE OF NEW CODE ONCE CHANGED **

Note: If you set a 4-8 digit code then user codes must also be the same amount of digits.

Example: If you set a 6 digit programming code all access codes must also be 6 digits long.



PROGRAMMING CODE NOT WORKING?

Note: In the event that the programming code has been forgotten or changed by accident, a DAP Reset of the keypad can be performed during the 60 second bootup phase. Pressing the PTE during this time or replicating this by shorting terminals 9 & 15 together with a jumper link the keypad will emit 2 short beeps if this step has been performed successfully. Then enter the DAP Code (Directly Access Programming Code) (8080**) on the front of the keypad as a backdoor into programming mode which will allow you to now set a new programming code, as per Step 6 above.

KEYPAD CODES

KEYPAD CODE LIST TEMPLATE

CLIENT NAME	MEMORY LOCATION	KEYPAD CODE	RELAY USED (CIRCLE)
James	000	1234	1 – 2 – 3
Mary	001	4321	1 – 2 – 3
			1 – 2 – 3
			1 – 2 – 3
			1 – 2 – 3
			1 – 2 – 3
			1 – 2 – 3
			1 – 2 – 3
			1 – 2 – 3
			1 – 2 – 3
			1 – 2 – 3
			1 – 2 – 3
			1 – 2 – 3
			1 – 2 – 3
			1 – 2 – 3
			1 – 2 – 3
			1 – 2 – 3

PROX ID LIST TEMPLATE

CLIENT NAME	MEMORY LOCATION	PROX ID	RELAY USED (CIRCLE)
James	005	0001548796	1 – 2 – 3
Mary	006	0001589678	1 – 2 – 3
			1 – 2 – 3
			1 – 2 – 3
			1 – 2 – 3
			1 – 2 – 3
			1 – 2 – 3
			1 – 2 – 3
			1 – 2 – 3
			1 – 2 – 3
			1 – 2 – 3
			1 – 2 – 3
			1 – 2 – 3
			1 – 2 – 3
			1 – 2 – 3
			1 – 2 – 3

USE THIS AS A TEMPLATE OF HOW TO KEEP TRACK OF ALL OF THE KEYPAD CODES SAVED WITHIN THE KEYPAD. FOLLOW THE FORMAT FROM THE EXAMPLES SET AND IF MORE TEMPLATES ARE REQUIRED THEY CAN BE FOUND ON OUR WEBSITE OR FOLLOW THE QR CODE PROVIDED.

TROUBLESHOOTING

Q: I cannot hear the visitor at the gate/door.
A: Check that the cable distance and type between the monitor and gate is within spec.
A: Check that the gate/door station and monitor are powered separately for cable distances of more than 10 metres.
A: Check that the gate/door station microphone sensitivity is at minimum, and the speaker in the gate/door station is turned below 1/3rd volume, and that the monitor speaker volume is at 1/3rd and try again.
A: Check cable cores are not mixed up.
A: Try trimming and re-stripping the cable ends in case of a break. Use a multi-meter on Bell mode to check for breaks.
A: If using additional monitors, try it with only one monitor connected first.
A: Test the gate/door station and the monitor on a test bench or workshop, or inside the house on a shorter cable run (note feedback may prevent sound in one or both direction unless devices are in separate rooms).
Q: I can only hear the visitor faintly, but if I increase the volume on the monitor, I can hear interference and noise.
A: The cable type is not ideal, or too long. Try doubling up cores on the audio wires to see if that helps. If not, you may need to consider upgrading the cable.
Q: Only one monitor is working.
A: Check that the first connected monitor is setup as a MASTER monitor, and that subsequent monitors are configured as SLAVE devices in the onscreen menu.
Q: The keypad accepts a code, but does not open the gates / door.

A: Check the relay is closing with a multi-meter on bell mode. If the relay changes state, then check wiring and ensure the keypad is connected to the gate system or lock as well as the communication part of the gate/door station (connect in parallel for gates or strike lock, series for magnetic door lock). If the relay does not change state when a code is entered, then the problem is most commonly cause by the keypad not getting enough current draw on the power cable being used. Check the power cable is within spec of this manual.

INTERCOM MAINTENANCE

Bug ingress is a common issue in unit failures. Ensure that all components are sealed accordingly and check occasionally. (Do not open the panel in the rain / snow unless correctly equipped to keep the internals dry. Ensure the unit is securely closed after maintenance)
Ensure that the transmitter box (603/703) or antenna (705) do not get blocked by trees, shrubs or other obstacles overtime as this may disrupt the signal to the handsets.
If you have an AB, AS, ABK, ASK callpoint it will have silver edges which are marine grade stainless steel so in normal weather conditions should not rust however it can dull or dis-colour over time. This can be polished with a suitable stainless-steel cleaner and cloth.

ENVIRONMENTAL INFORMATION

The equipment that you bought has required the extraction and use of natural resources for its production. It may contain hazardous substances for the health and the environment. In order to avoid the dissemination of those substances in our environment and to diminish the pressure on the natural resources, we encourage you to use the appropriate take-back systems. Those systems will reuse or recycle most of the materials of your end life equipment.
The crossed-bin symbol marked in your device invites you to use those systems.
If you need more information on the collection, reuse and recycling systems, please contact your local or regional waste administration. You can also contact AES Global Ltd for more information on the environmental performances of our products.

- This product is not a complete product until fully installed. It is therefore considered a component part of an overall system. The installer is responsible to check that the end installation complies with local regulatory requirements. This equipment forms part of a “fixed installation”.
- **Note**: The manufacturer cannot legally offer technical support to non-qualified gate or door installers. End users should employ the services of a professional install company to commission or support this product!

STILL HAVING TROUBLE?
Find all of our support options such as Web Chat, Full Manuals, Customer Helpline and more on our website:
WWW.AESGLOBALUS.COM
+1 (321) 900 4599

Documents / Resources

	**AES Global STYLUS-AUD-4.3-US StylusCOM Audio Hardwired System** [pdf] Installation Guide STYLUS-AUD-4.3-US StylusCOM Audio Hardwired System, STYLUS-AUD-4.3-US, StylusCOM Audio Hardwired System, Audio Hardwired System, Hardwired System

References

- **Region | AES Global Ltd | AES Gate Intercoms | United Kingdom**
- **AES Global LLC | Gate Intercoms | Florida**