



Ness aComms Install & User Manual



Phone GUI



Tablet GUI

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Ness D8x / D16x Versions

The Ness aComms app only works with version 5.6 and above of the D8x and D16x PCB.

i To control the AUX outputs in the Ness aComms App you must be using a D8x/D16x PCB version **7.8** or above.

D8x / D16x Two-Way Communication settings

The two way communications on the D8x / D16x will only work if the following programming locations are enabled on the panel:

P 199 E

1E ON: Send Address.

2E ON: Send Time Stamp

3E ON: Send Alarms.

4E ON: Send Warnings.

5E ON: Send Access Events.

Panic, Medical & Fire control

If you want to control the Panic, Medical & Fire in the Ness aComms app then you need to make sure you have the following programming locations enabled in the D8x or D16x.

P 126 E

1E ON: (Double key PANIC)

2E ON: (Double key FIRE)

3E ON: (Double key MEDICAL)

P 62 E

4E ON: Shortcut Keypad Panic

P 64 E

7E ON: Keypad Fire Alarm (STD LCD KP)

8E ON: Keypad Medical Alarm (STD LCD KP)

WIRING DIAGRAM

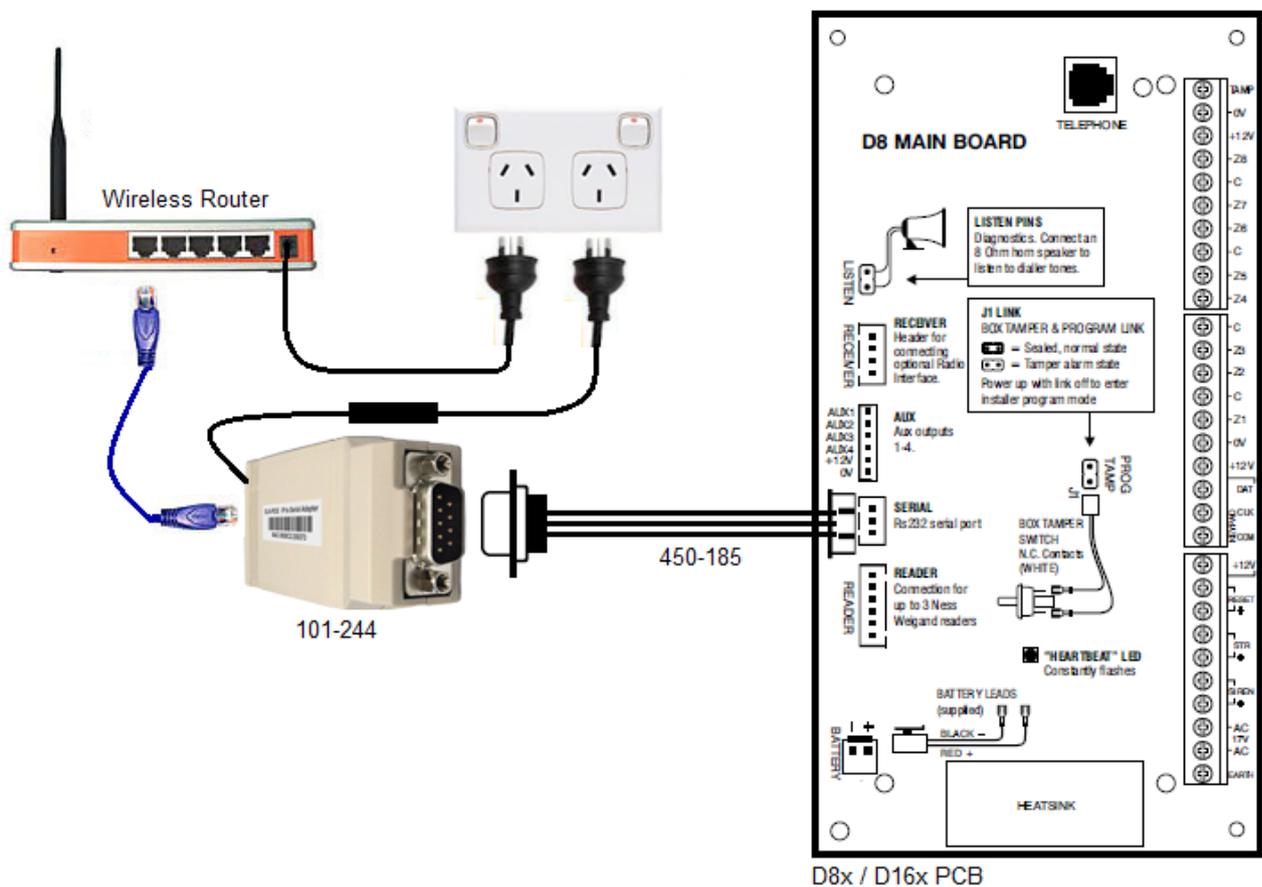
The Ness aComms app requires the D8x / D16x to be on a TCP/IP network.

Although the panel doesn't have a TCP/IP connection you are required to use an Ethernet to serial bridge to add the panel to your network.

i Ness Part Number **K-6002** includes the **D8x-D16x Serial Lead 3 Way – Panel to DB9** and **IP232 Ethernet to serial bridge** which it required to connect your panel to the network.

Hardware / Parts Required:

- 1 x D8x-D16x SERIAL LEAD 3 WAY - PANEL TO DB9
- 1 x IP232 ETHERNET TO SERIAL BRIDGE



You need to connect the white serial plug into the D8x/D16x and connect the other end into the IP232 Ethernet to serial bridge as shown in the image above, and then you need to connect the IP232 Ethernet to serial bridge into a wireless router/switch.

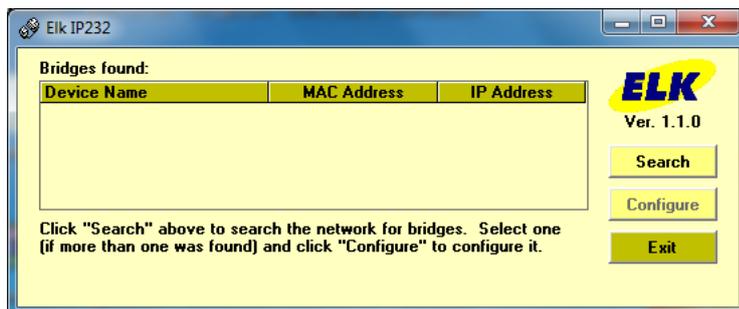
D8x/D16x Panel	IP232 Ethernet to Serial Bridge
Black	PIN5
Blue	PIN2
White	PIN3

IP232 ETHERNET TO SERIAL BRIDGE SETTINGS

Before any connection can be made, you need to make a few changes in the IP232 Ethernet to serial bridge.

To do this you need to open the **IP232 Config Utility** program which is available from the Ness product page for the IP232 Ethernet to Serial Bridge.

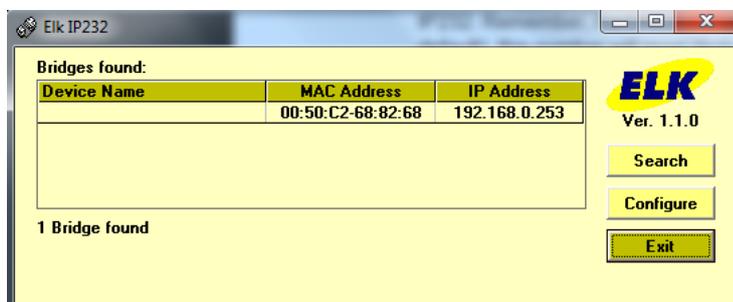
i You must be running at least version 1.1.0 or above of the IP232 Config Utility software.



⚠ You need to make sure that you have your network cable plugged into the IP232 Ethernet to serial bridge and make sure that it's connected to the same network your computer is plugged into before continuing.

Now you need to click on the **Search** button, this will go and search for these IP232 Ethernet to serial bridges on your network.

Once it finds an IP232 Ethernet to serial bridge it will display down the bottom how many was found, as well as showing it in the dialog along with its MAC address and IP address.



If it fails to find any IP232 Ethernet to serial bridges it will come up with the following error:

No Elk Ethernet to Serial Bridge devices were found.

Once it finds your IP232 Ethernet to serial bridge, click on it and select **Configure**.

You now need to enter / change some settings in the configure screen.

1. You need to make sure you set the IP address to a static IP address.
2. You need to enter in an IP address for this RS232 Ethernet to serial bridge.
This should be on the same network range as your Android device. (e.g. 192.168.0.xx)
If you are unsure what IP settings to use you might need to contact the network administrator.
3. You need to set the Baud rate to **9600** as that is what the D8x/D16x communicates on.
4. The TCP Port to accept connections should be set to **2401**.
This port number can be anything, but recommended to use the default 2401.
5. Once the settings have been entered, click on the 'Send Settings (to IP232)' button.
This will apply all the settings to the IP232 Ethernet to serial bridge.

The screenshot shows the 'Configure Elk IP232' window with the following settings:

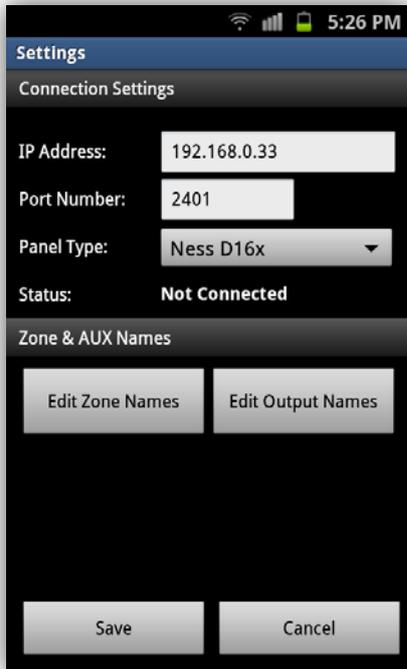
- Hardware version: 0.2
- Bootloader version: 1.0.6
- Firmware version: 1.0.16
- Current DHCP assigned address: [Empty]
- Device Name: IP232
- Serial Port Settings: Baud rate: 9600, Handshaking: None
- Incoming TCP Connections: TCP Port to accept connections: 2401
- Incoming UDP Packet Data: Port to listen for UDP packets: 65535
- IP Settings: IP Address: 192.168.0.133, Subnet Mask: 255.255.255.0, Default Gateway: 192.168.0.1
- Buttons: Read Settings (From IP232), Send Settings (To IP232), Load Settings (From Disk), Save Settings (To Disk), Update Firmware, Restart Device

Outgoing Connections *	
	When and how to initiate (and close) a connection
1	
2	
3	
4	
5	
6	

* Items marked with an asterisk are available only in Firmware version 1.0.12 and later

NESS ACOMMS CONFIGURATION SETUP

When you run Ness aComms for the first time, it will ask for your network settings as shown below:



You can also view this screen at a later time by pressing the **settings** button up the top right of the main screen.

IP Address

The **IP Address** is what you entered into the IP232 Ethernet to serial bridge from the previous page. Your Android Device is required to be on the same IP network and network range as your IP232 Ethernet to serial bridge. If you are connecting to your panel over 3G (mobile network) then port forwarding is required to your network. Please refer to portforwading.com on how to set that up.

Port Number

The **Port Number** is what you entered into the IP232 Ethernet to serial bridge from the previous page. Default Port is 2401.

Panel Type

You need to select the **Panel Type** of your panel that you are using. If you are using an 8 zone panel select **Ness D8x**, if your panel is a 16 zone panel then choose **Ness D16x**.

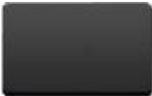
Zone names

By pressing the **Edit Zone Names** allows you to edit the name of the zone which you see in the GUI.

AUX Output Names

By pressing the **Edit Output Names** allows you to edit the name of the Output which you see in the GUI.

Understanding the icons

	Area is Disarmed		Zone is Normal
	Area is Armed		Zone has be violated
	Area is Armed to Monitor / Home Mode		Zone is in alarm
	Area is Armed to Day Mode		Panic / Fire / Medical is active
	Panel has a low Battery		Panic / Fire / Medical is Normal
	Panel is alarm		AUX / Output is OFF
			AUX / Output is ON

Arm to away mode

To arm the panel, you need to press the **Arm** button followed by your user code then press the **E** button.

Arm to home / monitor mode

To arm the panel to home/monitor mode, you need to press the **Home** button followed by your user code then press the **E** button.

i This feature needs to be enabled in the panel.

Disarm the panel from away or home / monitor mode

To disarm the panel, you just need to enter in your user code followed by the **E** button.

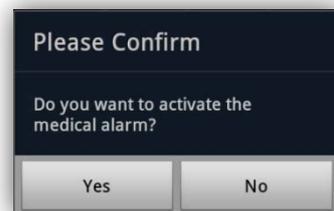
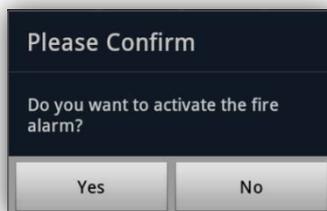
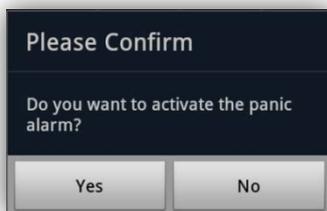


i The Panic, Fire and Medical alarms will only work if it's been enabled in the panel.

You have 3 different alarms to choose from:



Once you tap on the alarm buttons (Panic, Fire, Medical) it will ask you to confirm if you really want to activate the alarm before it sends the request to the panel. This is in case you tap it by mistake.



Panic

The panic button will send a panic alarm to the alarm panel.

Fire

The Fire button will send a fire alarm to the alarm panel.

Medical

The Medical button will send a medical alarm to the alarm panel.

VIEWING ZONE STATUS

You can view the zone status from the panel by clicking on the **Zones** button up the top left of the screen.



i If you are running a tablet and the screen is 7" or bigger, then the **zones** button will not appear on the screen as the zones will be on the screen already.

There are 3 different states

-  **Zone Normal**
-  **Zone Violated**
-  **Zone is in alarm**

Each zone status is updated automatically when a zone is violated or becomes back to normal.

i You can rename each zone name by opening the settings screen.



Phone GUI



Tablet GUI

CONTROLLING THE AUX OUTPUTS



To control the AUX Outputs in the Ness aComms app, you must have a version **7.8** or above of the D8x/D16x PCB.

You can tap the AUX Output to activate/deactivate the output at any time.

The AUX outputs have 2 states:



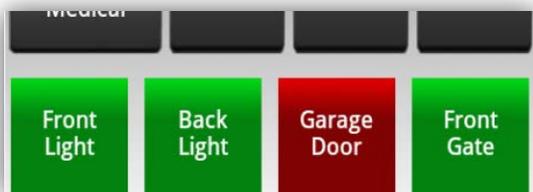
AUX Output is OFF / Normal



AUX Output is ON / Active



You can rename each AUX Output name by opening the settings screen.



Why can't I control the AUX Outputs?

The outputs can only be controlled by version 7.8 and above on the D8x / D16x. Although you can use the outputs on the keypads (such as the navigator keypad or KPX) and view the status in the Ness aComms app, there is no serial protocols in earlier boards to turn the output on or off via the serial port.

I can't control anything on the panel using the app?

The Ness aComms app will only work if the following is enabled on the panel:

P 199 E

- 1E: ON** (Send Address.)
- 2E: ON** (Send Time Stamp)
- 3E: ON** (Send Alarms.)
- 4E: ON** (Send Warnings.)
- 5E: ON** (Send Access Events.)
- 6E: ON** (Send Zone Seal State. (D8x/D16x V6 and later.))

Make sure your IP address isn't being used by another device on your network, and make sure you Android device is connected to the same network as the panel.

Why doesn't the Panic, Fire or Medical buttons work?

Make sure you have the following programming locations enabled in the panel:

P 126 E

- 1E: ON** (Double key PANIC)
- 2E: ON** (Double key FIRE)
- 3E: ON** (Double key MEDICAL)

P 62 E

4E ON: Shortcut Keypad Panic

P 64 E

- 7E: ON** Keypad Fire Alarm (STD LCD KP)
- 8E: ON** Keypad Medical Alarm (STD LCD KP)

Can I control my D8x / D16x over the internet using 3G?

Yes, however you will need to enable Port Forwarding in your router. For more information on how to enable port forwarding please visit www.portforwarding.com for detailed step-by-steps on port forwarding.