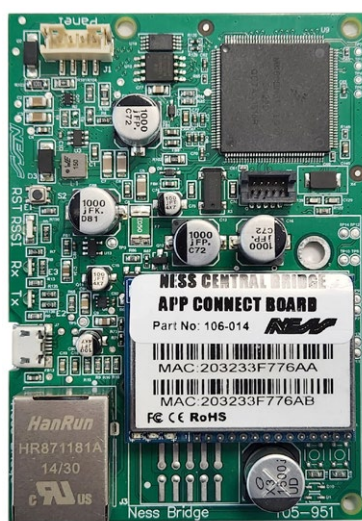




YOUR
D8/D16
PANEL

FREE
MEZZO
APP



INTERNET

NESS CLOUD

NESS-BRIDGE ETHERNET INTERFACE MODULE
NESS MEZZO APP

Installation & Operation Manual

Rev 1.3



CORPORATION

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NESS-BRIDGE ETHERNET INTERFACE MANUAL

Document Part No: 890-506

Rev 1.3 Jul 2024

Applies to 106-014 Ness-Bridge Ethernet Interface.

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OVERVIEW

Ness-Bridge is an easy to install ethernet interface providing internet connectivity for Ness D8/D16 control panels.

Ness-Bridge in combination with the free **Ness Mezzo** app provides handy remote operation features for your Ness control panels.

- Arm and Disarm
- Home Mode operation
- Operate D8/D16 outputs*
- Receive Push Notifications for Arm/Disarm and alarm events
- View zones and panel status

* Outputs require optional 106-013 Relay Board/s. Other conditions apply, refer to page 19.

COMPATIBILITY

Ness-Bridge is compatible with:

Control panels

D8XD / D16XD (Rev6 and later)
D8XCEL 4G / D16XCEL 4G

Mobile Devices

Android: 7.1 or later
iPhone: iOS 15.0 or later

INCLUSIONS

106-014 Ness-Bridge Module is supplied with:

1 x Ness-Bridge module
1 x 450-233 4-wire loom
2 x Red slider mounting rails

4-Pin header connects via the 4 wire loom to the D8/D16 panel

Reset Button

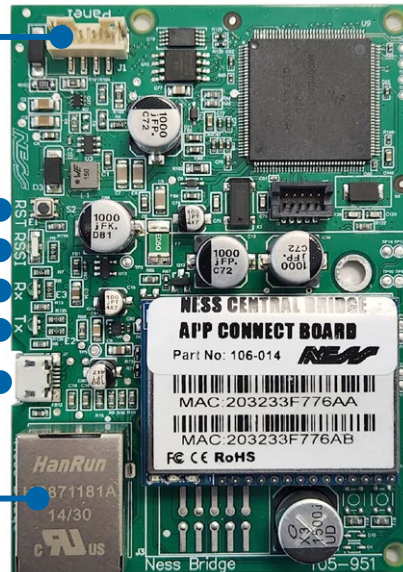
RSSI LED

RX LED

TX LED

USB Port (Factory use only)

RJ45 Ethernet port



LEDS OPERATION

RGB LEDs	RED	GREEN	BLUE
RSSI		Boot up, Normal run	
RX	Error code	Flashing, receiving data	
TX	Default All, Default Ethernet	Flashing, sending data	Fast flash 5 seconds for fully defaulted unit

HARDWARE RESET

To default ALL SETTINGS

To default all Ness-Bridge hardware and user settings and reboot the Ness-Bridge module press and hold the RST button for 30 seconds.

TX RED LED will flash continuously during boot-up followed by a single flash from RSSI LED when completed (approx 3 minutes).

To default ETHERNET settings

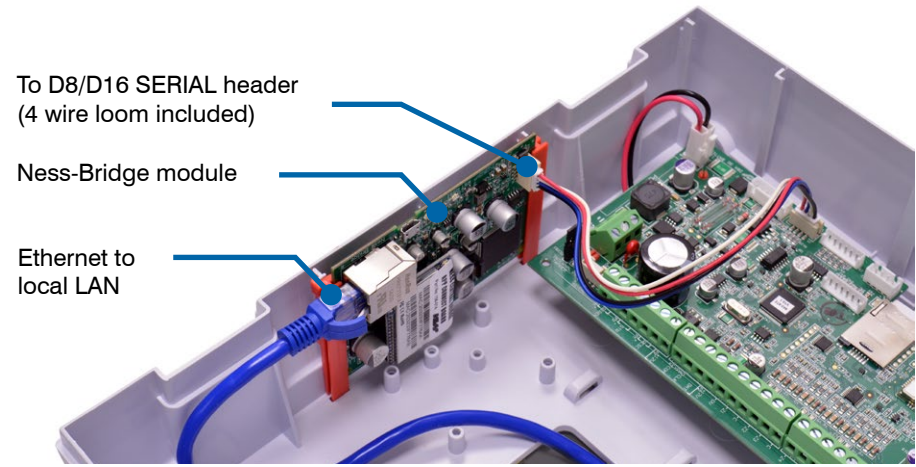
To default the Ness-Bridge Ethernet settings to factory settings, press RST button twice, (long press, 2 seconds each press).

TX RED LED will confirm the action.

TX RED LED will flash continuously during boot-up followed by a single flash from RSSI LED when completed (approx 3 minutes).

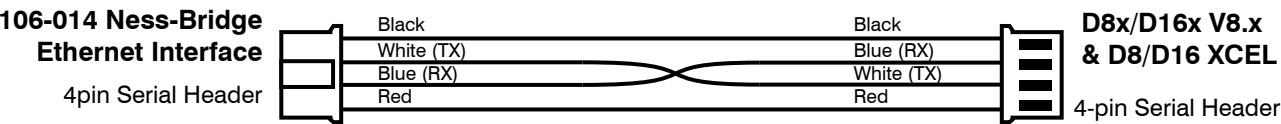
HARDWARE
SET UP

Install the Ness-Bridge module in your D8/D16 housing using the red slider rails provided and connect the 4 wire loom to D8/D16 SERIAL port.



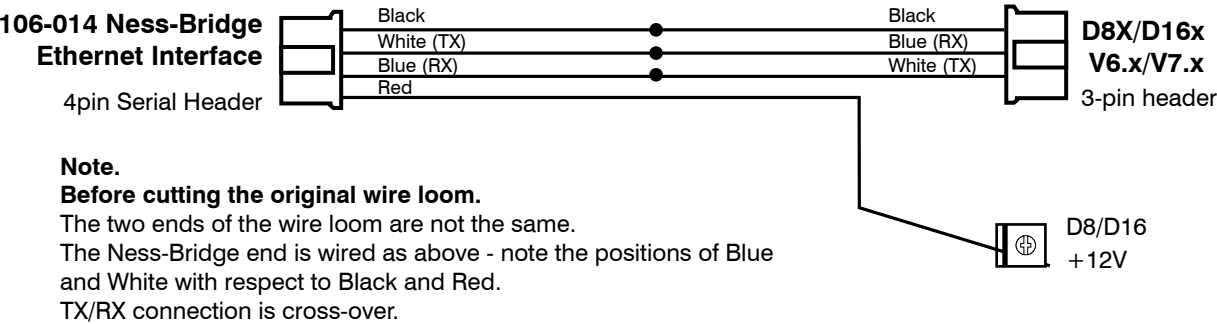
Connection to
current version panels
with 4-pin serial port

Ness-Bridge connection to D8x/D16x V8.x and D8/D16 XCEL
Use the 4 wire loom supplied with Ness-bridge module.



Connection to
previous models
with 3-pin serial port

Ness-Bridge connection to older D8/D16 V6.x/V7.x 3-pin Serial Port
Use the 4 wire loom supplied with Ness-bridge and join to a 450-185 serial lead 3pin (cut off and discard the DB9 plug).



PANEL
PROGRAMMING

In the D8/D16 panel, enable serial port options at P199E.
Installer Programming mode.
P199E, turn on options 1E-7E

KPX+	P199E select options 1E to 7E
NAVIGATOR	P199E > select options 1 to 7

APP SETUP

1. Get MEZZO app from Google Play store or Apple App Store

2. Install Mezzo app



ANDROID



iOS

3. If you have a **Ness Cloud** account, enter your Email and Password to login.

To create a new account tap SIGN UP



TYPES OF USER ACCOUNTS

The first user added will automatically become the Admin account.

When additional users activate their Cloud account/s the new users will appear in your app in myUsers > Requests.

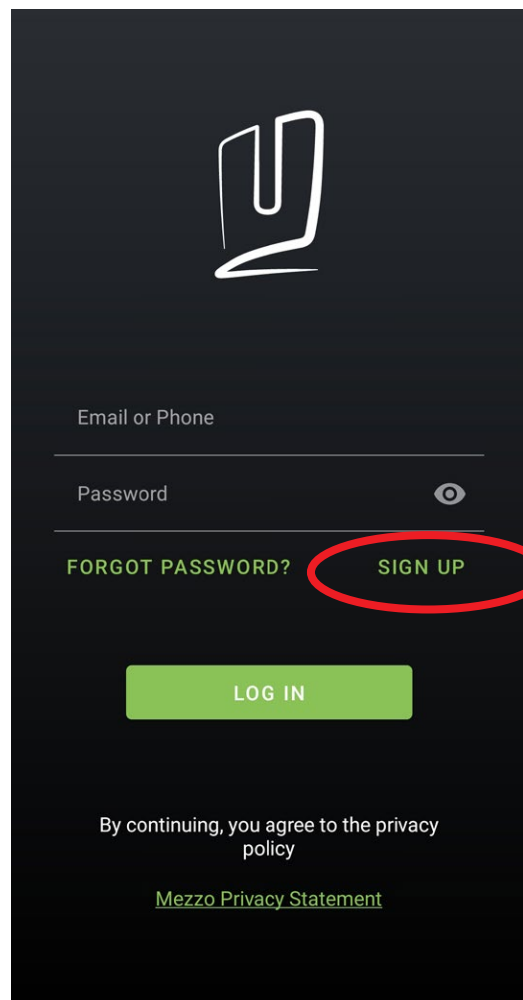
Add the new user as a Family or Guest user.

Family users can arm and disarm.
Guest users can only view events.





Ness Cloud is the online service providing login facilities for your Mezzo app and allows Mezzo app to connect to the Ness-Bridge module.

Access to Ness Cloud is free for basic operation of your devices via Ness-Bridge.



APP SETUP

4. Tap the Menu icon  and choose Device List

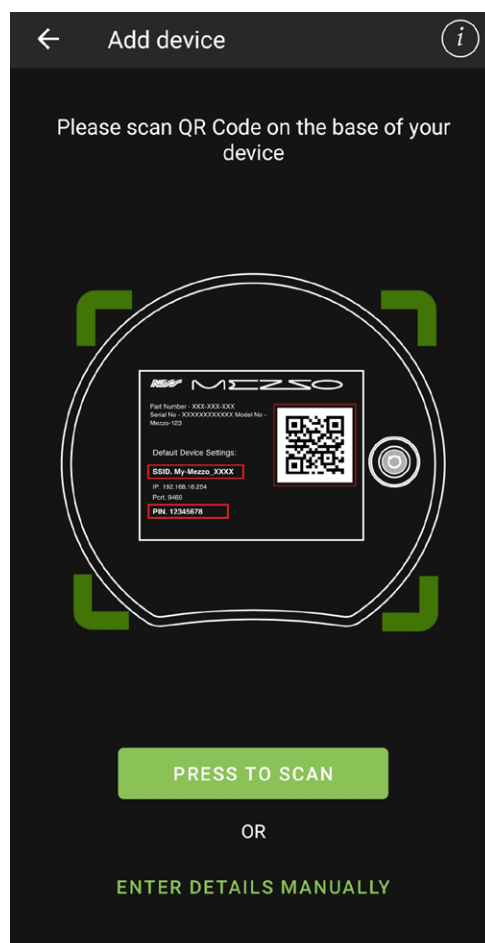
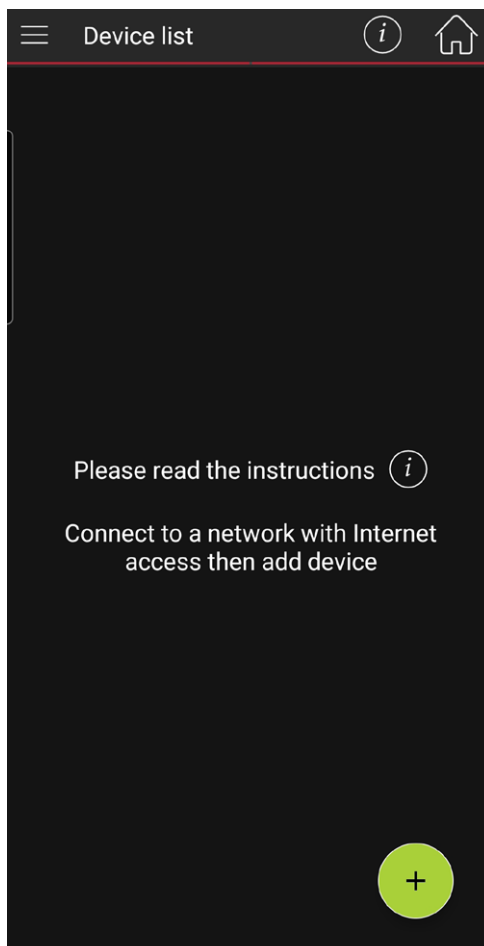
5. Tap  to add your Ness-Bridge device



For security purposes, when adding a device, **your smartphone must be on the same network as the Ness-Bridge device.**

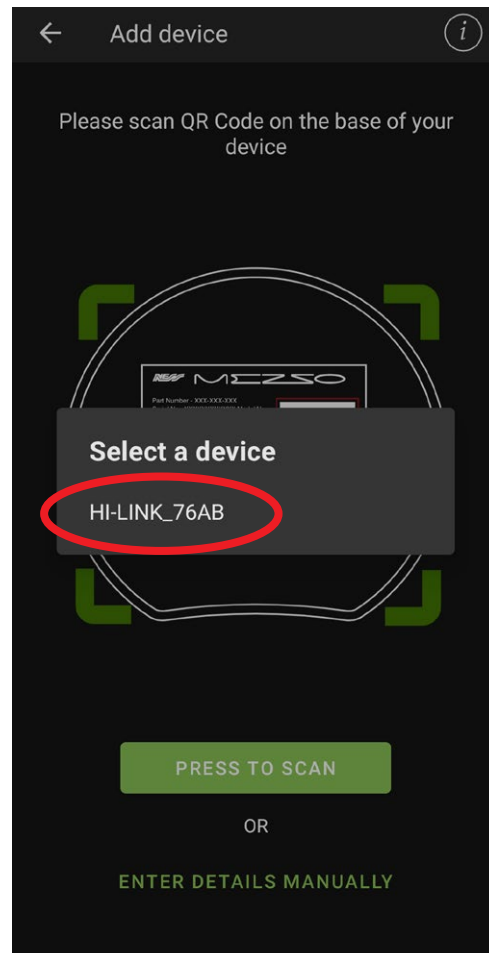
Once your Ness-Bridge has been successfully added and activated you'll be able to connect from any network.

6. Tap Press To Scan the QR code on the rear of your Ness-Bridge device

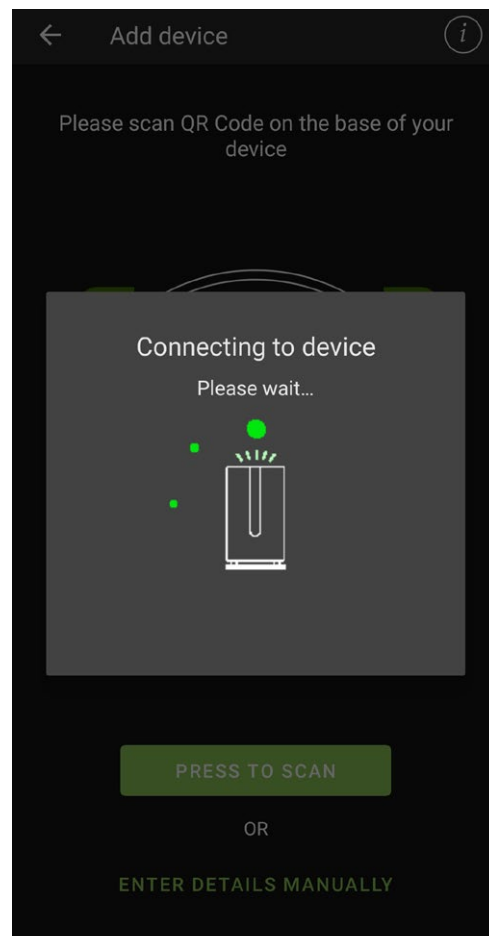


APP SETUP

7. Once the Ness-Bridge device is found, tap the device name to select.

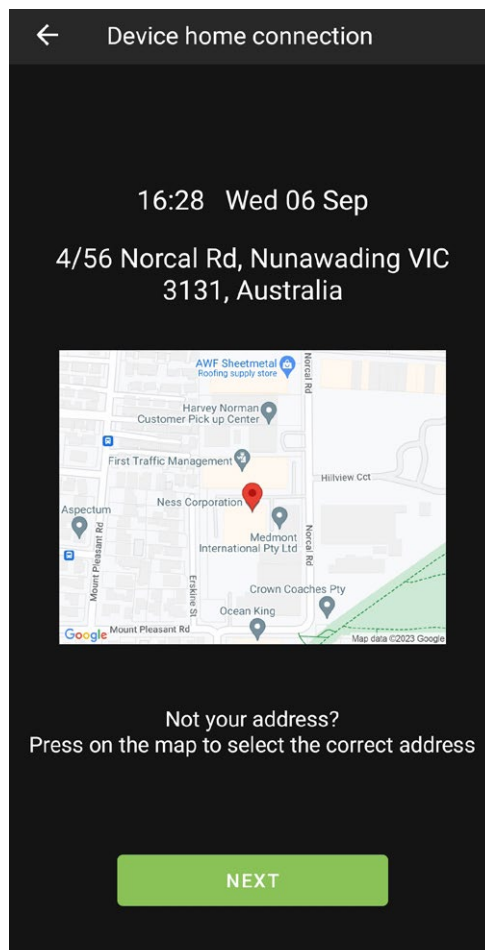


7a. Mezzo app will connect to the device

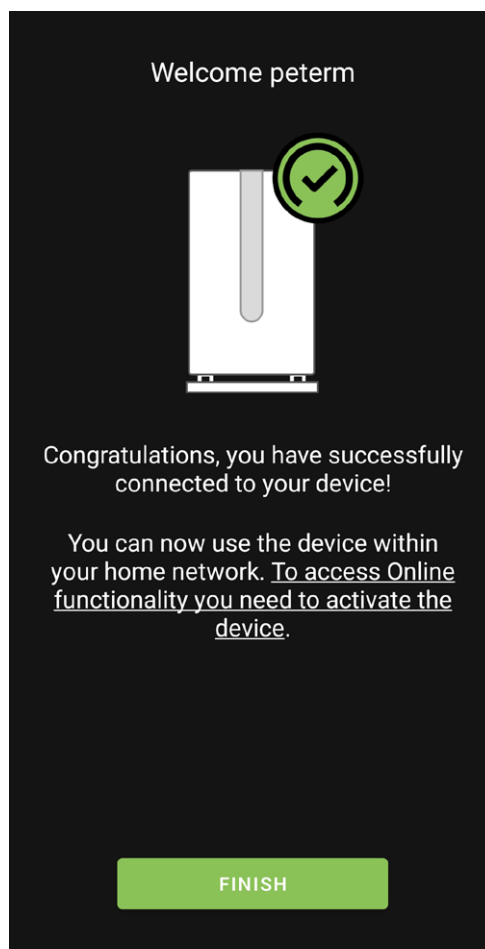


APP SETUP

8. Follow the instructions to set your location

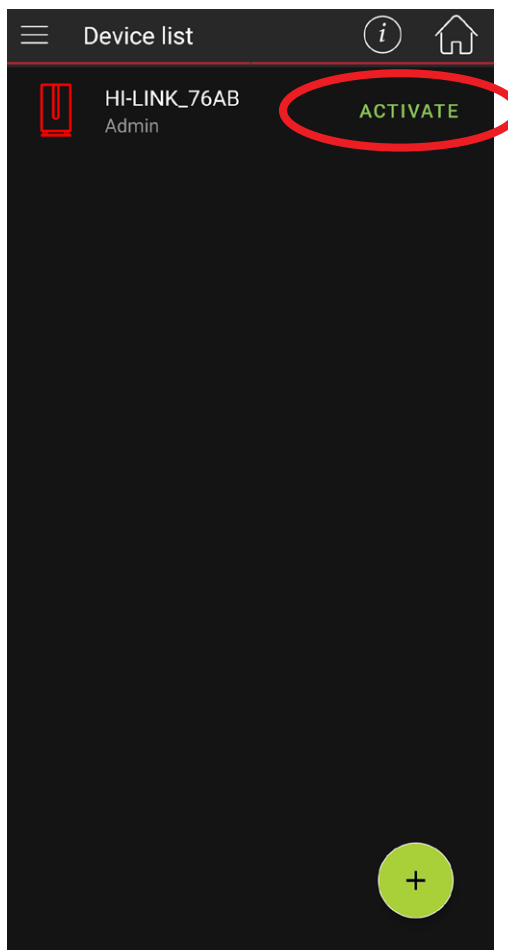


9. The device has been successfully added. Tap FINISH.

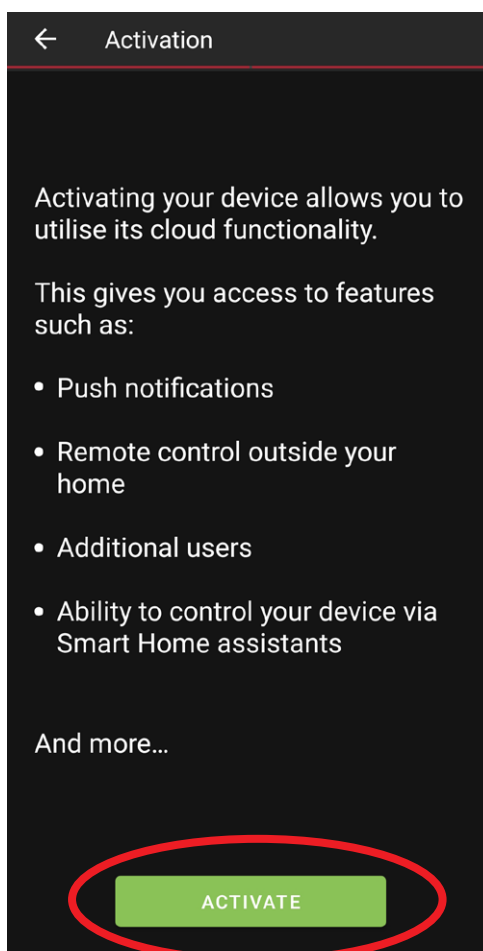


APP SETUP

10. Tap ACTIVATE to activate the device in the Ness Cloud.

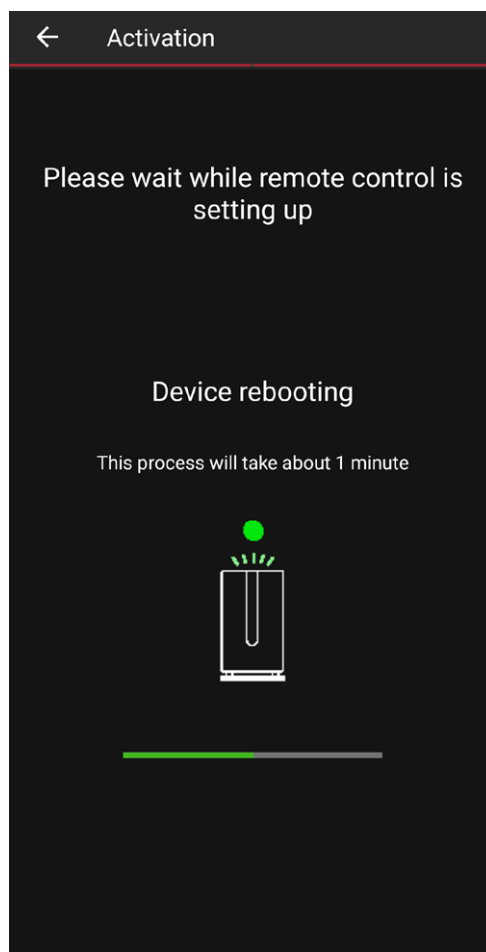


11. Tap ACTIVATE again.

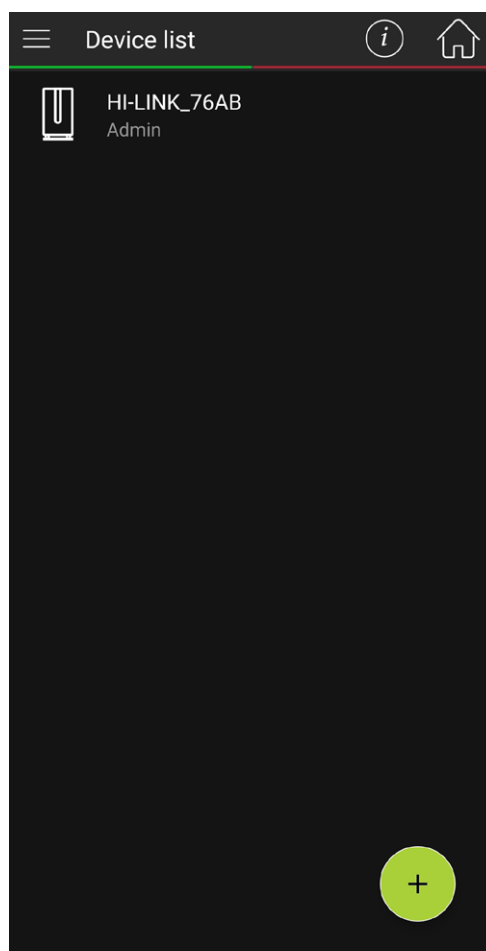


APP SETUP

12. The device will reboot after activating on the Ness Cloud.




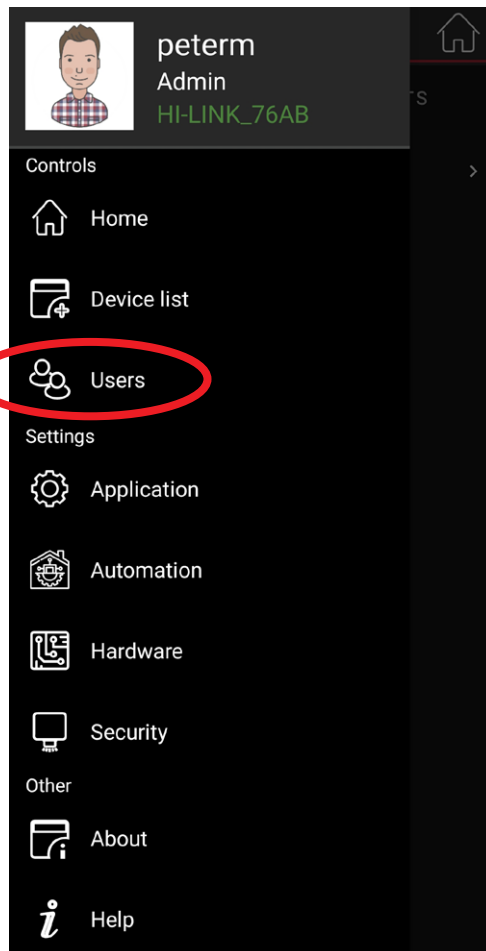
13. The device has been successfully added.



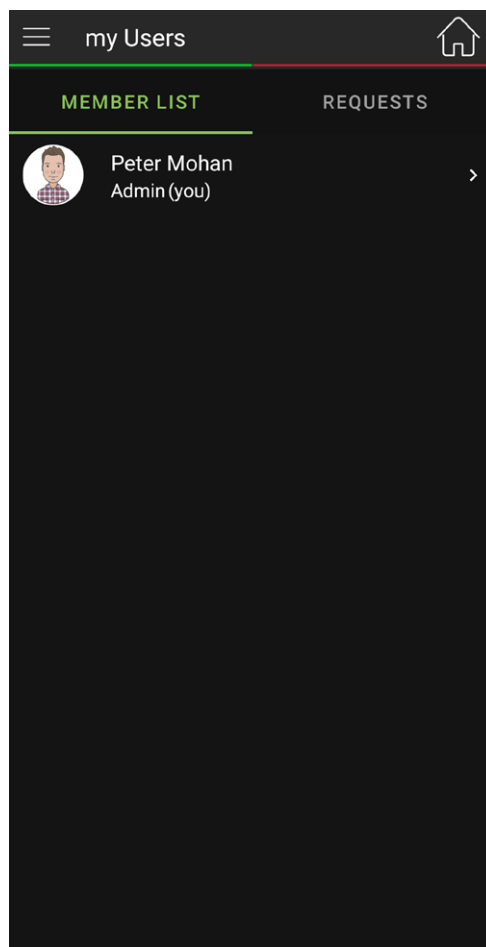
APP SETUP

Setup your PIN to match your user code in your D8/D16 control panel.

14. Tap the Menu icon  and choose Users.

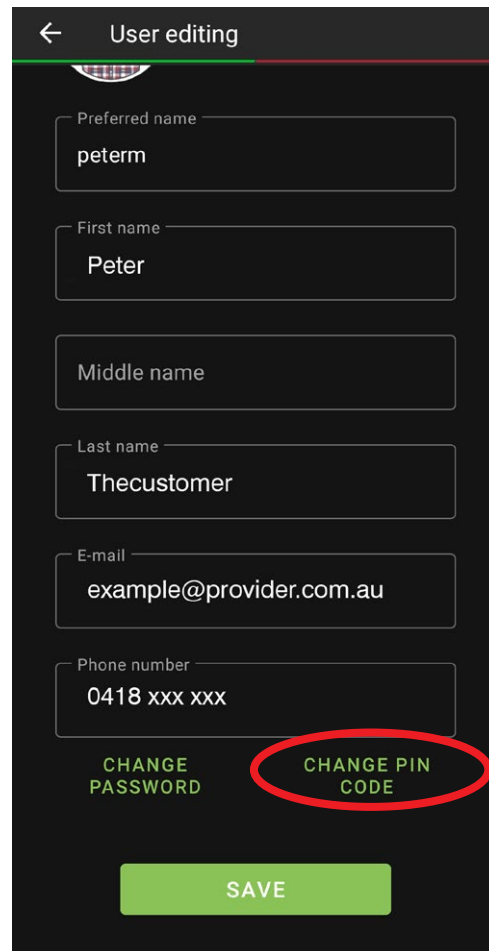


15. Tap your user account



APP SETUP

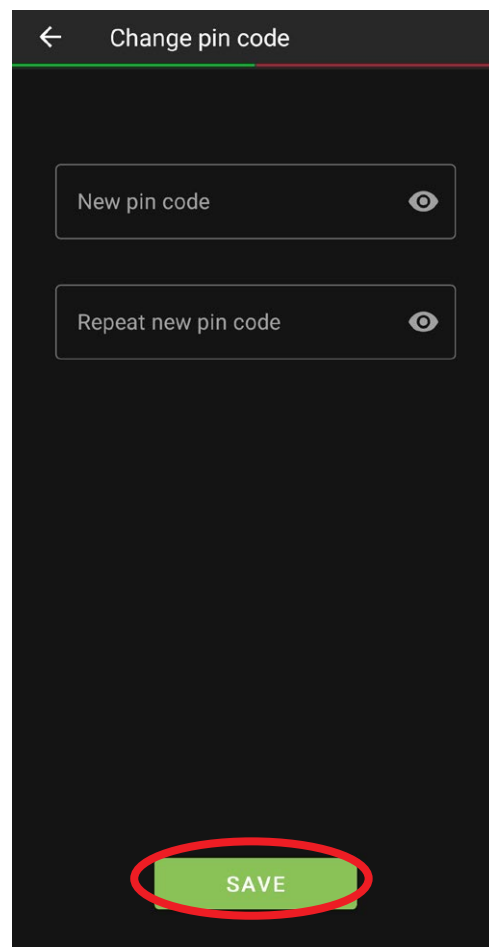
16. On your profile page, tap CHANGE PIN CODE



The 'User editing' screen displays a dark-themed form with several input fields. The fields are labeled 'Preferred name', 'First name', 'Middle name', 'Last name', 'E-mail', and 'Phone number'. The values entered are 'peterm', 'Peter', an empty field, 'Thecustomer', 'example@provider.com.au', and '0418 xxx xxx' respectively. At the bottom of the form, there are two green buttons: 'CHANGE PASSWORD' and 'CHANGE PIN CODE'. The 'CHANGE PIN CODE' button is circled in red. Below these buttons is a large green 'SAVE' button.

17. Enter a PIN to match your D8/D16 user Code.


18. Tap SAVE.

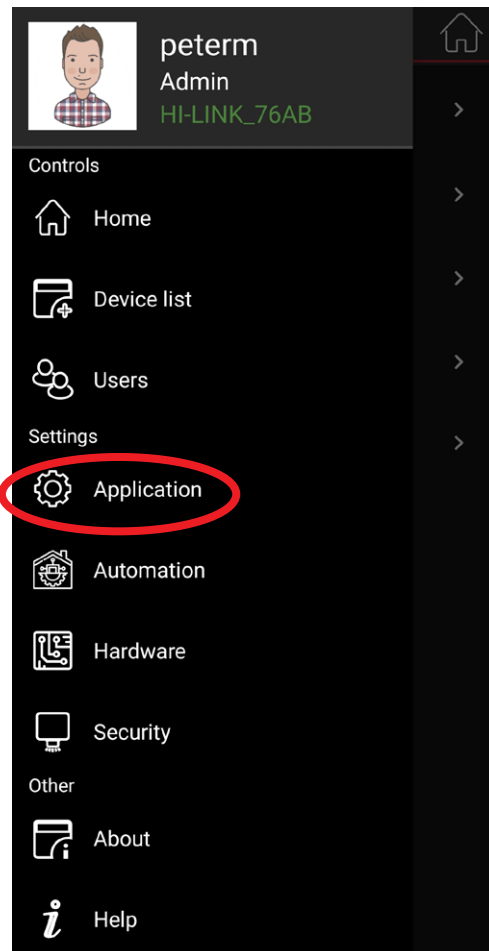


The 'Change pin code' screen displays a dark-themed form with two input fields: 'New pin code' and 'Repeat new pin code'. Each field has a small eye icon to its right. At the bottom of the screen, there is a large green 'SAVE' button, which is circled in red.

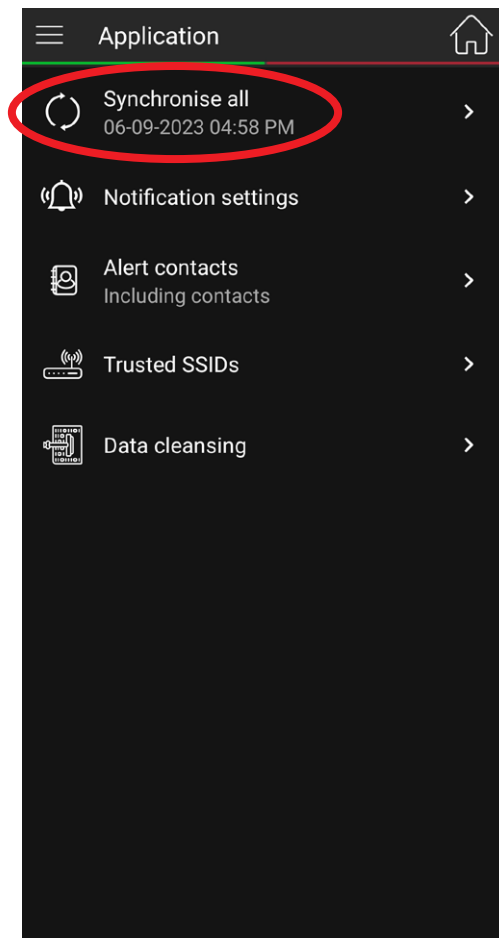
APP SETUP

19. Next, synchronise your device settings with the Ness Cloud

Tap the Menu icon  then tap Application.



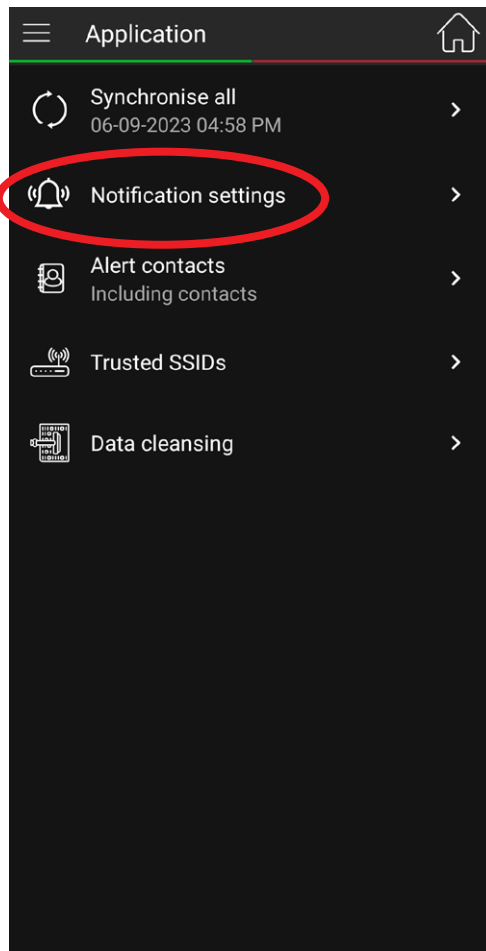
20. Tap Synchronise all



APP SETUP

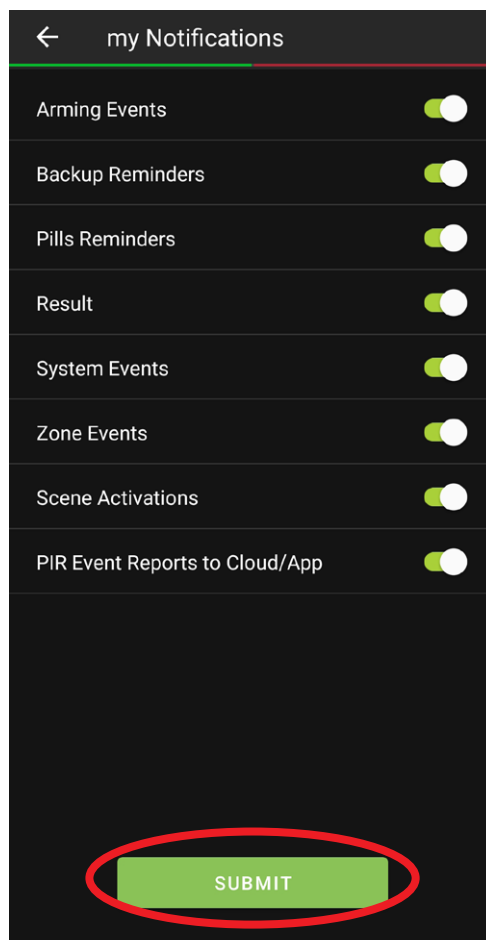
21. You can choose which Push Notifications you'd like to receive on events.

Also in the Application menu, tap Notification Settings

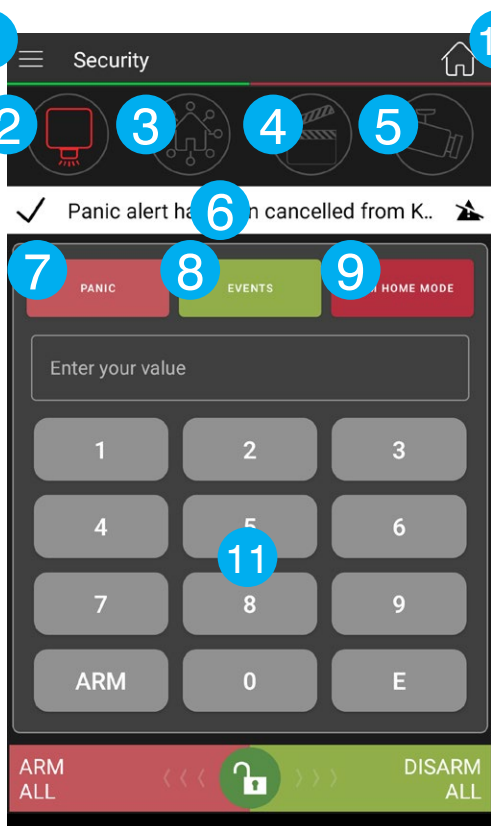


22. All notifications are enabled by default, choose your preferences.

23. Tap SUBMIT



OVERVIEW - Security home screen



The screenshot shows the 'Security' app interface. At the top, there's a header with a menu icon (1), the title 'Security', and a home icon (10). Below the header are five circular icons: a monitor (2), a house with a lock (3), a factory (4), a camera (5), and a car (6). The main area has three tabs: 'PANIC' (7), 'EVENTS' (8), and 'HOME MODE' (9). Below the tabs is a numeric keypad (11) with buttons 1-9, 0, and 'E'. At the bottom is a slider with 'ARM ALL' on the left, a padlock icon in the center, and 'DISARM ALL' on the right. A status bar at the very top shows a checkmark and the text 'Panic alert has been cancelled from K..'. Blue arrows point left and right from the slider, indicating its function.

- 1 MENU, button
- 2 SECURITY, (this screen)
- 3 DEVICES, shows Zone Status and Virtual Switches
- 4 SCENES, set up 'Scenes' to automate actions and events. Mezzo app guides you step by step when you press + to start creating a Scene
- 5 CCTV, (future option)
- 6 EVENT WINDOW, The most recent event is displayed here
- 7 PANIC, trigger Panic alarm, see page 18
- 8 EVENTS, displays all previous events
- 9 ARM HOME MODE, see page 18
- 10 HOME, goes to app home
- 11 KEYPAD, for manual operation or arming/disarming areas, see page 17

Use the SLIDER for quick arming and disarming in one easy action. Slide left or right to arm or disarm.

The SLIDER also displays the panel's armed state.



Green padlock, panel is disarmed



Red padlock, panel is armed

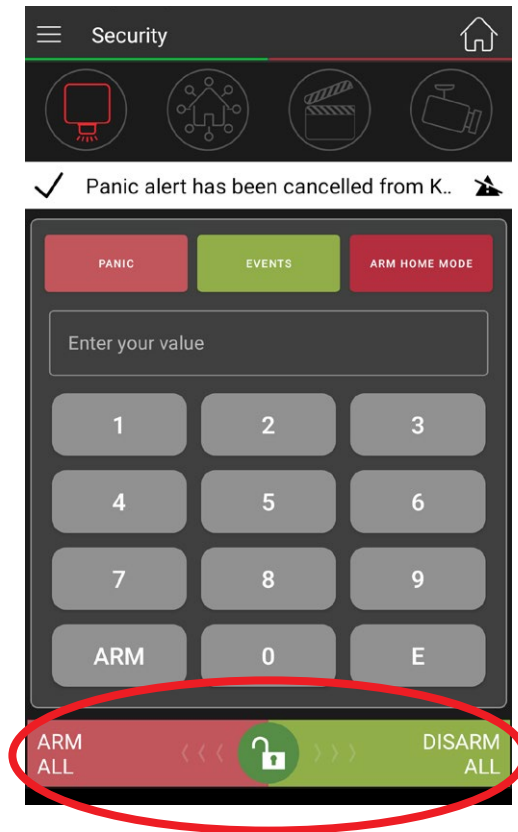


Red padlock with perimeter, panel is armed in Home Mode

OPERATION

ARM and DISARM your panel by swiping the lock slider left to Arm All or swipe right to Disarm All.

This action uses your control panel user code as set up at step 17 to arm and disarm.



ARM / DISARM AREAS

To Arm or Disarm an Area use the app keypad as a virtual keypad.

Same as using the physical keypad simply enter:

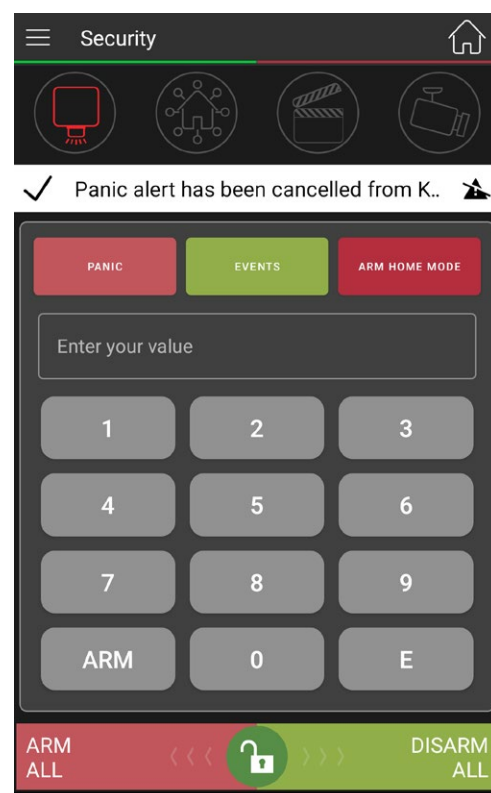
ARM	A [Your User Code] E
DISARM	[Your User Code] E

The Area being operated depends on the setup of each user code in the D8/D16 panel.

For example, User Code 1 is assigned to both Areas 1 & 2 by default.

You can also program other user codes and assign them to either Area 1 or Area 2. (this must be programmed at the control panel).

For detail see *Area Partitioning* in the D8/D16 Installation Manual.



OPERATION

ARM HOME MODE

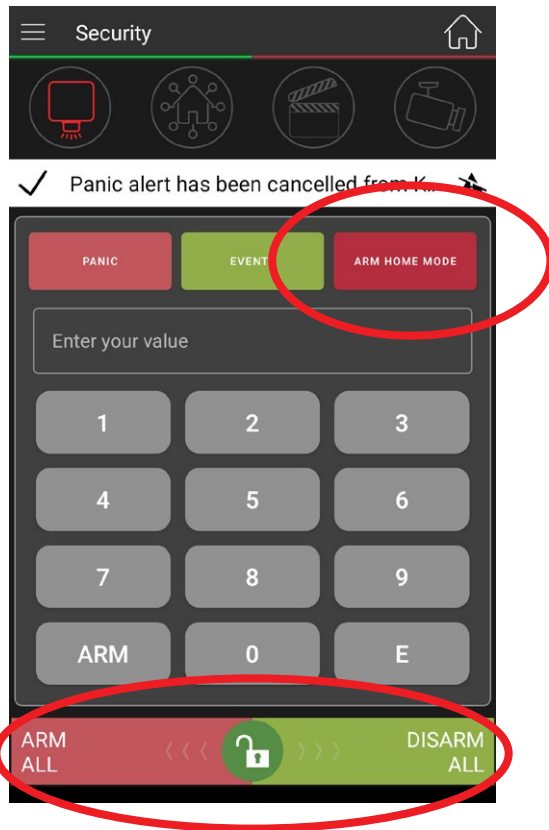
To Arm Home Mode go to *my Security* > *Arm Home Mode*.

INITIAL SETUP

In your D8/D16 panel, in Installer Program Mode, P51E, enable the zones which will be armed in Home Mode.

DISARM HOME MODE

To Disarm Home Mode swipe the lock slider right to Disarm All.



PANIC operation

To trigger a Panic alarm press PANIC.

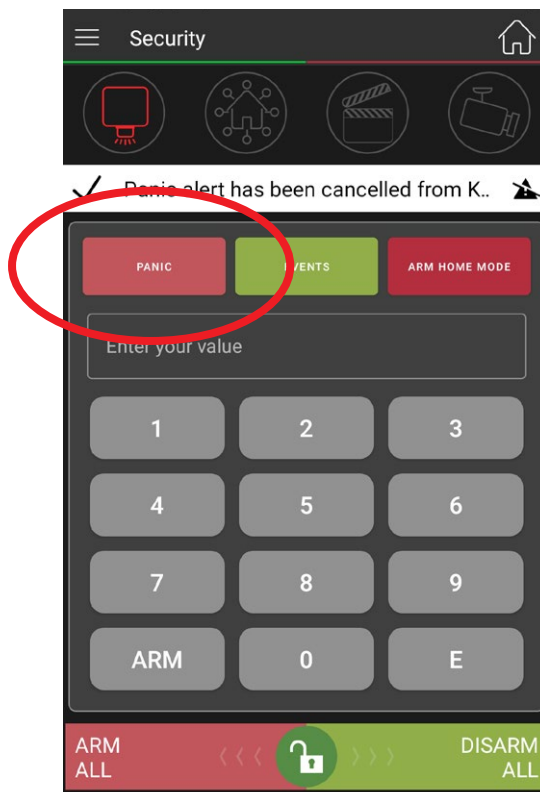
This action will:

- Turn on the siren and strobe (if enabled in the panel).
- Trigger central station reporting¹ (if programmed).
- Send a push notification to the Mezzo app (if enabled).

¹Central station reporting requires an active SIM or landline connection and central station monitoring account which is a separate service.



PANIC function is not available in:
D8/D16 V6.x
D8/D16 V10.8



PANEL SETUP

VIRTUAL SWITCHES (D8/D16 OUTPUTS)

Virtual Switches allows you to operate D8/D16 Outputs 1~8 using optional 106-013 Relay Board/s.

INITIAL SETUP

In your D8/D16 panel, in Installer Program Mode enable 'keypad operation' for the required outputs.

See P141E~P144E, enable 4E.

Requires optional 106-013 Relay Board/s or 106-011 Output Expander.

xxx corresponds to:

P141E D8/D16 Output 1

P142E D8/D16 Output 2

P143E D8/D16 Output 3

P144E D8/D16 Output 4

D8/D16 panel, Installer Program Mode.

KPX+	PxxxE 4E enable the option to allow operation of the output via Mezzo app
NAVIGATOR	PxxxE > enable 4E

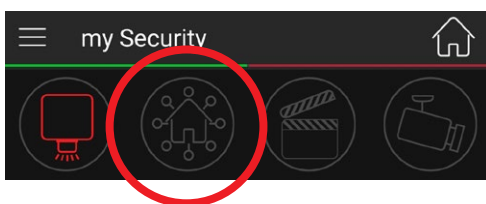
Refer to the D8/D16 Installer Manual for further detail and setup options for additional outputs.


Operation of outputs via Mezzo app is not available in D8/D16 V6.x and D8/D16 V7.x

OPERATION

TURN OUTPUTS ON/OFF

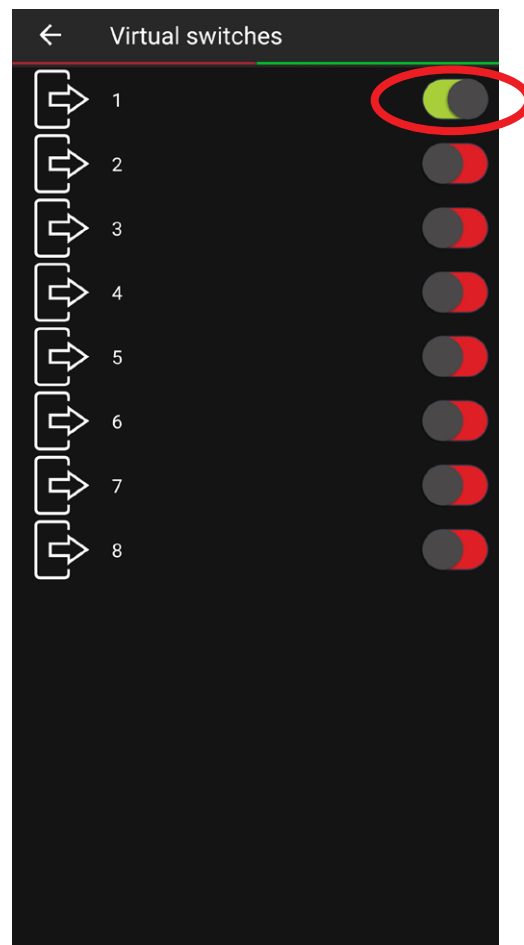
To operate D8/D16 outputs go to *my Security* > *Zones & Outputs*.



Tap each output's switch  to toggle on and off.



Operation of OUTPUTS via Mezzo app is not available in:
D8/D16 V6.x
D8/D16 V7.x



SPECIFICATIONS

NESS-BRIDGE PCB DIMENSIONS	92 x 65 x 18mm
INTERFACE	RJ45 Ethernet to local LAN / 4-wire loom to control panel
MAX. DEVICES PER MEZZO APP	10
POWER REQUIREMENT	13.8V DC via 4-wire loom to D8/D16
AVERAGE CURRENT DRAW	120mA
COMPATIBILITY	Ness D8XD / D16XD (Rev6 and later), D8XCEL 4G / D16XCEL 4G

¹ * Outputs require optional 106-013 Relay Board/s. Other conditions apply, refer to the manual.

² Operation of outputs via Mezzo app is not supported in D8/D16 V6.x to V7.x

PANIC function is not available in D8/D16 V6.x and D8/D16 V10.8

