

Quick Start User Guide

ZRx Specification

The ZRx PCB is available in a number of configurations on both mobile phone bands and cellular IoT bands (i.e. 2G, 4G and 5G IoT; LTE-M & NB-IoT).

Standard Configuration

- ZigBee coordinator for up to 32 nodes
- 7x 0-24VDC inputs with current source for on/off switch contacts
- 1x 0-24VDC power input terminal with voltage monitoring
- 2x 50V 2A relay outputs featuring NO/COM/NC
- 1-wire terminal (with 5V 200mA source) for up to 8x 1-wire devices
- 2x Weigand/Paxton keypad input terminals

Optional Configuration

- 2x RS232 Ports
- 1x RS485 Port
- 1x RS422 RX/TX

Inputs can be configured via the user interface, over the air, as 0-24VDC analogue or digital (on/off) type inputs for use with volt free contacts. In the digital configuration the input sources a weak pull up current (<1mA) at 2.8V.



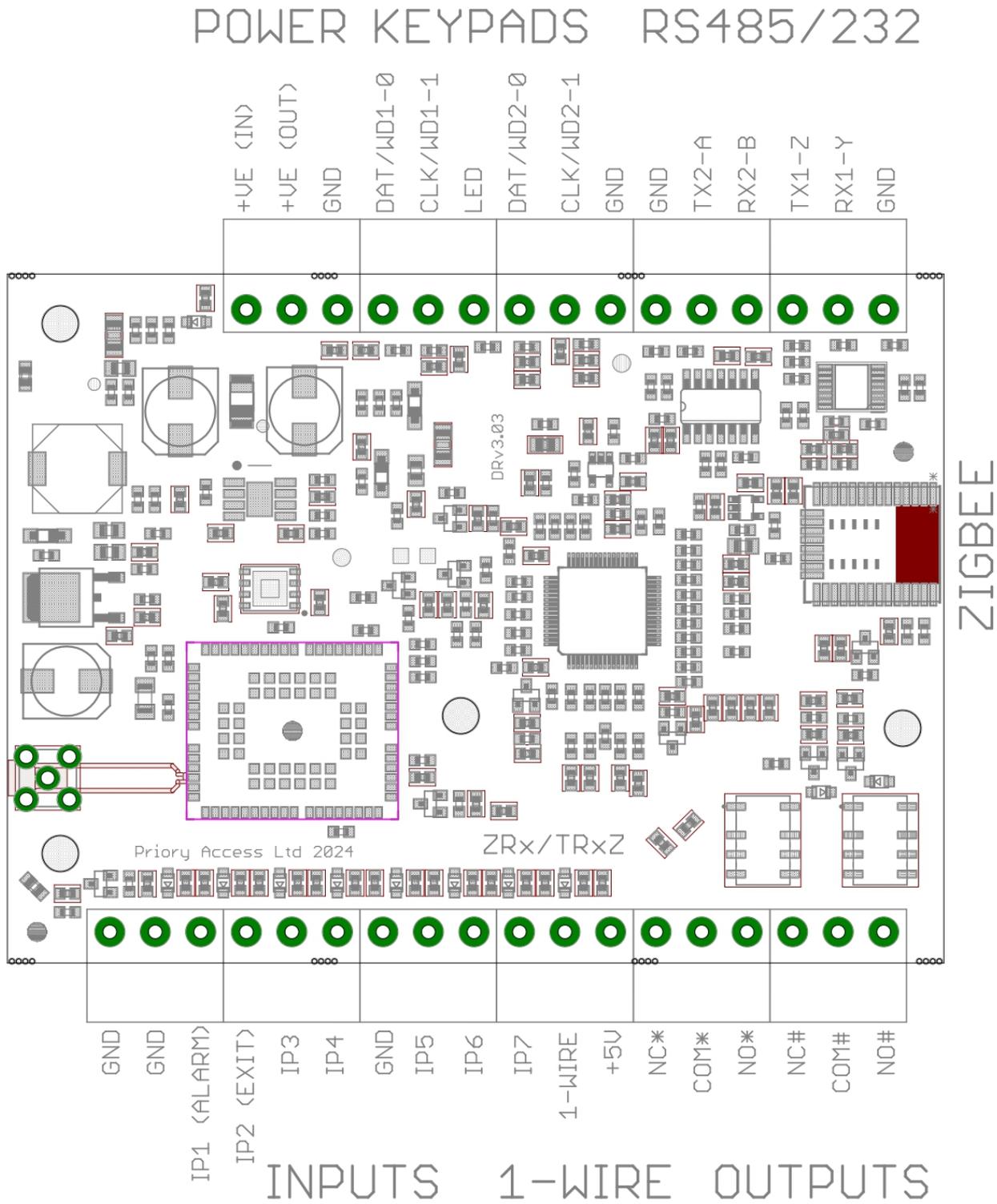
DR4

Cellular Technology	4G LTE Cat-1bis, 2G GSM
ZigBee/Matter	IEEE 802.15.4 2.4GHz
Cellular Aerial	SMA Female Penta-Band
Power Supply	12-24VDC 20mA-100mA
Reader Interface	Wiegand 5V
Exit/Fire Inputs	NO/NC/GND
Output Relay	NO/NC/COM 2A 50V Max.
Output Transistor	100mA 50V max.
Timers	7-day, 2 events per day
Keypcode Length	1-7 digits
Tag ID	7 characters

DR5

Cellular Technology	5G NB-IoT & Cat-M1, 2G GPRS
ZigBee/Matter	IEEE 802.15.4 2.4GHz
Cellular Aerial	SMA Female Penta-Band
Power Supply	12-24VDCAC 20mA-100mA
Reader Interface	Wiegand 5V
Exit/Fire Inputs	NO/NC/GND
Output Relay	NO/NC/COM 2A 50V Max.
Output Transistor	100mA 50V max.
Timers	7-day, 2 events per day
Keypcode Length	1-7 digits
Tag ID	7 characters

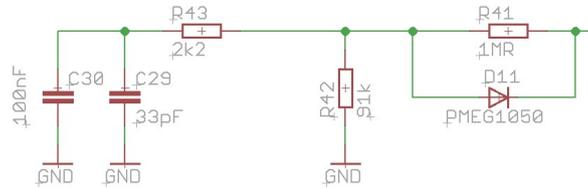
Terminal Assignment



IIoT Monitoring and Control System

Each input can be used to send SMS and email messages and initiate a Text-to-Speech voice call. Inputs can be used to operate outputs on the local device and also on remote devices creating a long-range switch connection. Output relays can switch currents up to 2A at 50V.

Input Configuration



Input Reference Circuit (1.091MR Impedance)

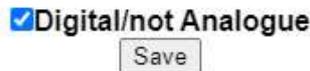
Digital Mode

Each input can be configured as an analogue or digital input. The mode is selected using the settings button on the input card on the Live Screen (circled in orange below).

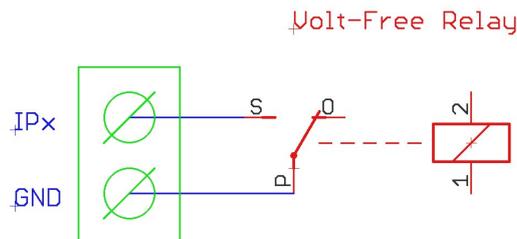


Input Settings Button

The Input Settings modal features the Digital/not Analogue checkbox. To switch the input over to digital, ensure this checkbox is checked and click the Save button immediately below the checkbox. **The device must be powered on and registered on the network for the change to the input to be made.**



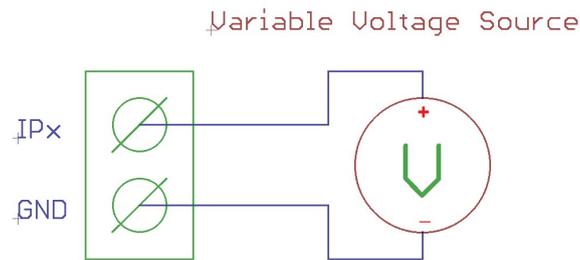
Digital inputs have 2 states; High and Low and are designed to be connected to a volt free switch or relay. Setting the input to digital sets the device to source a small current through the input channel. This allows it to sense when a switch contact has been connected to the GND terminal. This corresponds to the 'Low' state. When the input is open-circuit it is considered to be in the 'High' state.



Setting the input to digital will overwrite the upper and lower threshold voltages to 20V and 10V respectively. The source voltage will be 2.8V maximum.

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Analogue Mode



To switch to analogue mode the 'Digital/not Analogue' checkbox should be unchecked and the 'Save' button should be clicked only when the device is powered up and registered on the network.

In analogue mode there are 3 states.

Under the Low Voltage Threshold value, the input is considered 'Low'

Above the 'High Voltage Threshold' value the input is considered 'High'

A voltage between the high and low voltage is regarded as the 'idle' voltage. There should be a difference between the high and low threshold voltages of at least 2x the input hysteresis voltage which is typically 0.5V. Hence, when setting the upper and lower threshold voltages, ensure they are at least 1V apart.

The inputs can measure a voltage from 0V to 24V. By default, there is 0.5V of hysteresis on each input. This means the input will not retrigger until the voltage is more than 0.5V away from the threshold voltage. This stops a minor voltage fluctuation repeatedly triggering the input.

Outputs

Standard DIN rail IoT systems feature 2 mechanical output relays with both 'Normally Open' and 'Normally Closed' terminals. We recommend a maximum terminal voltage of 50V with a current up to 2A.

The relays can be controlled at any time via the 'Live Screen' and can also be operated by SMS or dialling. Please see the supplementary 'SMS Programming and Operation' Quick Start Guide for SMS control.

To get or change the telephone number to dial for each output, click the telephone icon on the output card. This number can be changed to any one of our international telephone numbers. Each relay can have its own unique telephone number.



Click the telephone to change the number

If your number is present in two or more IoT devices, then you should select unique numbers for all relays as ringing this number will operate all relays where your phone number is valid. This may or may not be desirable.

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ZigBee 3.0 Coordinator

The ZRx models feature a Silicon Labs EFR32MG24 SoC based ZigBee coordinator. The standard ZRx model has ZigBee 3 firmware only. Contact support for BLE and Matter applications.

- ZigBee, Matter, OpenThread, and BLE
- +10/+20 dBm TX output power
- -106.0 dBm 802.15.4 RX sensitivity
- -98.5 dBm BLE 1M RX sensitivity
- 32-bit ARM® Cortex®-M33 core at 78 MHz
- 1536/256 kB of Flash/RAM memory

The ZRx can handle up to 32 nodes per unit. A full list of compatible devices can be found here:



<https://iot-portal.com/znodes>

A new ZR4 device will come with the ZigBee PAN set up and ready to use. The following is included for reference.

PAN Setup



Zigbee Setup
✕

Network (PAN) Setup

PAN Details

Node:

PANID:

Channel: ▾

Power:

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PAN Details

The PAN details display shows the current coordinator node ID and IEEE address. If any boxes are not populated click the 'Get' button.

Leave

To destroy the current **Private Area Network (PAN)** the 'Leave' button is pressed'. A new network must be formed after the PAN is terminated. Any attached devices will no longer be connected.

Network Form

If a PAN is not running, a new network must be formed.

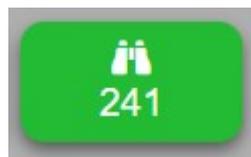
The default PANID is derived from the modem IMEI number and shown in the PANID box. This can be manually changed as desired.

The best ZigBee channels for UK/EU operation are shown at the top of the drop-down list. These ensure the best compatibility even in areas where there are lots of conflicting WiFi networks. Any of the available channels can be selected to avoid conflicts with other ZigBee/Matter/WiFi networks which use the same radio spectrum.

The power of the transmitter can be adjusted from 1 to 20dBm. However, the transmitter on ZRx devices is limited to 10dBm. We recommend leaving the default 13dBm value in this textbox.

Pairing Devices

To pair a compatible ZigBee 3 device to the ZRx, the Discover button should be clicked ensuring it changes to green in colour and starts a 4-minute countdown.



The method for pairing individual devices depends on the specific device being paired. However, devices follow a similar pattern in order to pair them to the ZRx.

Typically, SONOFF and Tuya ZigBee devices require the pair button to be held for about 8 seconds.

IKEA devices usually require the pairing button to be pressed 4 times in sequence to reset and pair the device.

Please refer to the iot-portal.com YouTube channel for assistance in setting up individual devices.

Scan the QR code to go to the Zigbee Help Page

<https://iot-portal.com/zigbee-help>



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General Wiring

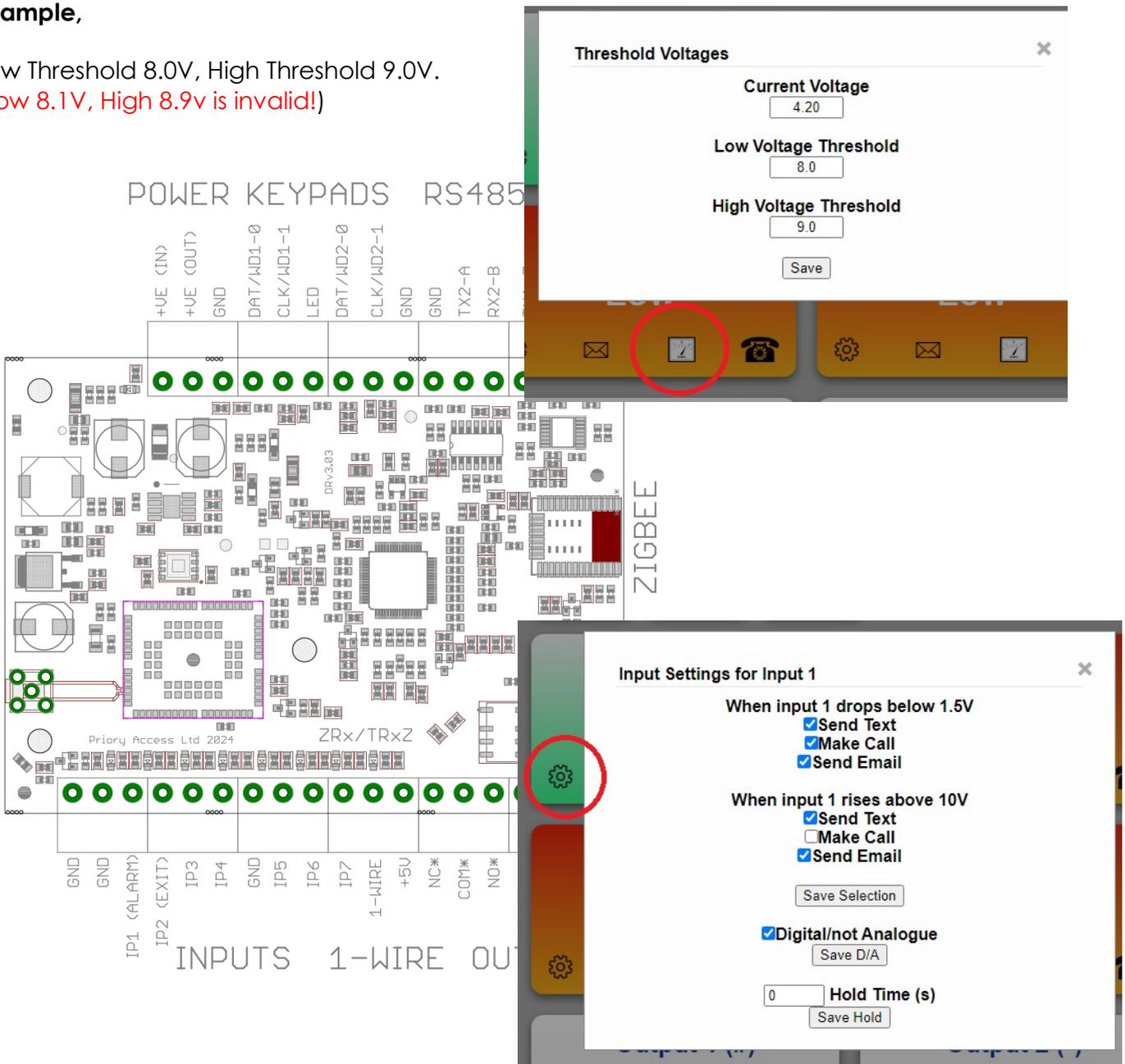
The input terminals 1-8 (1-7 for 1-Wire TR5 models) will measure a voltage of 0V to 24V DC. Do not apply AC to these terminals.

The device can be powered from a DC supply up to a maximum of strictly 24VDC! The power should be connected to **+VE (IN)** and **GND**. The +VE (OUT) terminal is connected to +VE (IN).

A voltage source can be supplied to the inputs up to 36V. The input impedance is approximately 1MR. The high and low message trigger voltages can be set from 0V to 24V. There is 0.5V of hysteresis applied programmatically to the input (user variable). You should ensure the difference between the low and high voltage thresholds is at least twice the hysteresis value (i.e. 1.0V minimum)

Example,

Low Threshold 8.0V, High Threshold 9.0V.
 (Low 8.1V, High 8.9v is invalid!)

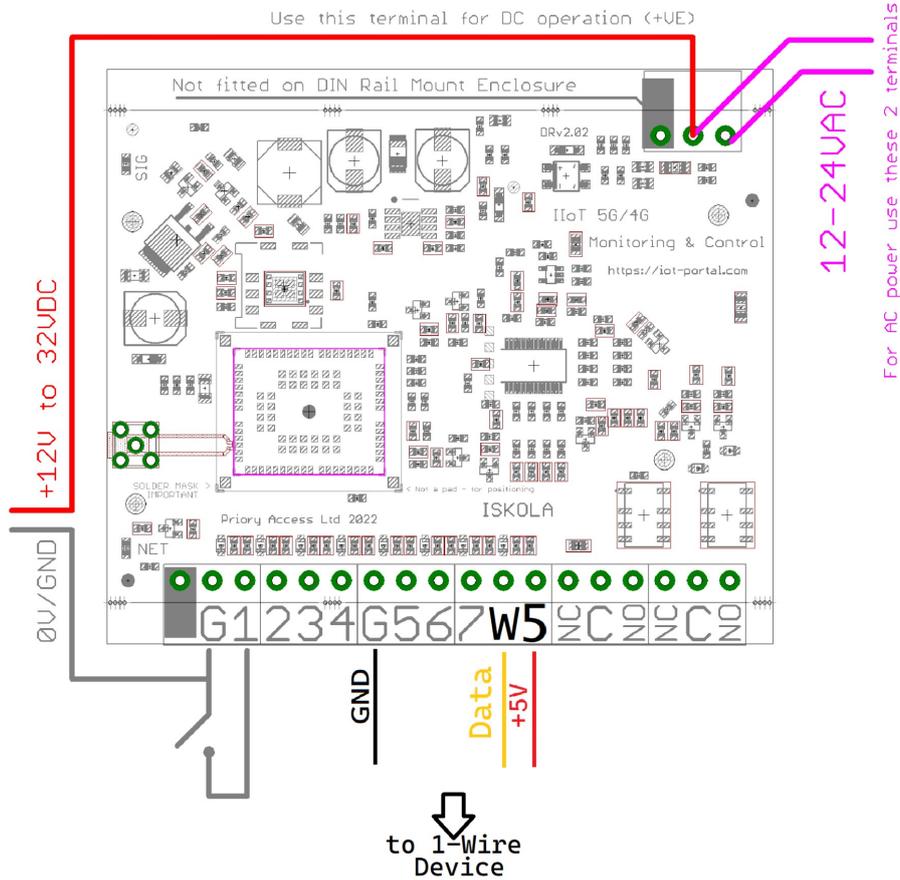


Choose between analogue and digital mode by clicking the gear wheel on the input card on the Live Screen
 Uncheck the 'Digital/not Analogue' check box for analogue

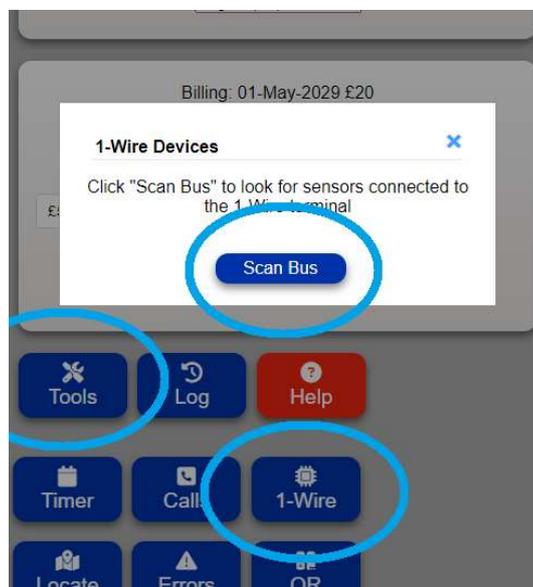
1-Wire Input

A variety of sensors and output devices can be connected to Input 8; the 1-Wire input on the TR5 model. The standard TR5 can accept up to 32 devices connected to this input.

On TR5 models, the 3rd GND terminal is a 5V output to power the 1-Wire devices (red). Input 8 (W) is the 1-Wire data terminal (yellow). The GND terminal (black) next to input 4/5 should also be used with these devices.



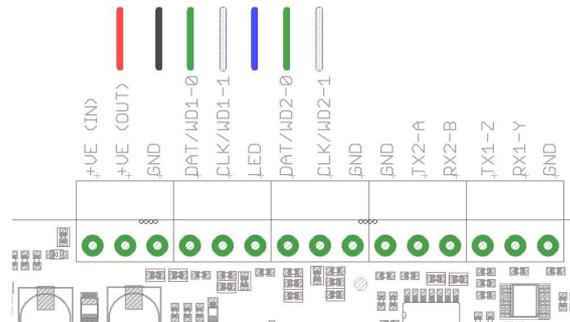
The TR5 needs to scan the 1-Wire bus in order to use any devices connected to the 1-Wire input. To do this, go to the 'Live Screen' > 'Tools' (Blue Button) > '1-Wire'. This brings up the 1-Wire modal. Click 'Scan Bus' to find all devices connected to the 1-Wire bus.



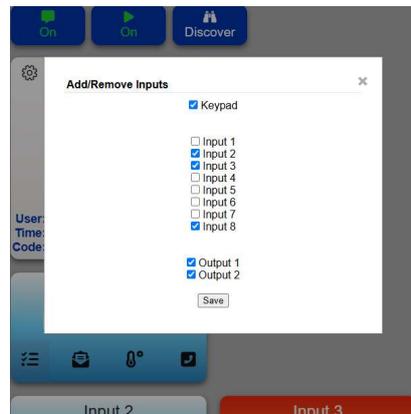
Weigand/Paxton Keypads

Both standard 5v logic level Weigand keypads and Paxton CLK/DAT keypads can be used with the ZRx.

There are 2 keypad terminals typically used for entry and exit. They can also be used on 2 separate doors with exit switches.



Readers can generally derive the supply voltage from the +VE (OUT) terminal and a GND terminal. If the reader requires 5V they can use the 5V terminal intended for the 1-wire terminal. Input 2 is typically used as an exit switch input. This should be connected to GND to open the door.



To enable the reader controls to appear on the Live Screen, go to **Live Screen > Tools > I/O CFG**. This brings up the display controls modal. Ensure 'Keypad' is checked.

Door Entry Access Control

Events are typically generated by switches, sensors or voltage sources connected to the input terminals. They can also be generated by keypads, tag readers and certain internal processes such as a device reset.

Any event can be used to operate an output relay. The operation can be to activate the output, to de-activate the output, to operate the output for a set time period or to toggle the output between states.

Each output can be controlled by numerous events internal to the controller. For example, a valid tag presented to a RFID tag reader generates an event which can be used to activate an output and open a door for a set period.

Event Driven Output Activation ✕

Select up to 2 events to switch **ON** the output

Two empty dropdown menus for selecting events to switch ON the output.

Select up to 2 events to switch **OFF** the output

Two empty dropdown menus for selecting events to switch OFF the output.

Select up to 2 events to switch on the output for a **TIMED PERIOD**

Two dropdown menus with 'Access Granted (Out)' and 'Exit Switch Pressed' selected.

Select up to 2 events to **TOGGLE** the output

Two empty dropdown menus for selecting events to toggle the output.

Save

The activation can either be a timed period, an 'on' activation, an 'off' activation or a toggle activation (on, off, on of etc...).

Each activation type can have 2 trigger events. These settings can be viewed from the Live Screen by pressing the 'Play' button on each output card.

Typically for access control, the 'Access Granted' event along with 'Exit Switch/Input 2' events will be selected to open a door connected to relay 1 or 2 as shown above. A valid tag presented to the 'Out' reader will make the output operate for a timed period along with input 2 going low (renamed to Exit Switch Pressed).

Should the installer wire the reader and output connected to separate doors, it would be a simple case of changing the timed event on each output to fix it.

Timed Events

The time period the output is activated for by a 'TIMED PERIOD' event is set in the 'Output Settings' modal. This is accessed from the Live Screen by clicking the 'gear wheel' icon on the output card. This setting is saved to the device so it requires the device to be switched on and connected to the portal.

Output Settings ✕

Flood Sign

- Dial in Enable
- Live Screen Enable
- Open Page Enable
- Remote Enable

Toggle on Call*

SMS Reply

s
Pulse Activation Time*

Save

When connecting exit switches to the inputs, ensure the input Device Hold time is set to 0s!

[HELP: Hold App Note](#)

Server Hold (mins)

Save

Device Hold (s)

Save Hold

Delete

Set the Device Hold on the relevant Input Settings Modal.

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Programming Online: <https://iot-portal.com>

QR Code

A QR code supplied with the product will grant immediate access to the Live Screen. These codes can be destroyed and created on the Live Screen. Scanning the 'Live Screen' QR Code will take you to the Live Screen for that unit. From here you can add your email address and/or phone number on the 'Users' page. You require data on your SIM for this to work!

If you add your phone number as an 'Admin' phone you will then be able to get back to the 'Live Screen' by sending:

Live Screen - grants access to the Live Screen for programming and operation

View Screen - grants access to the View Screen which allows monitoring only

Enrol Screen - for enrolling devices onto the portal (for installers)

Box Label - description of package contents

Invite QR - links to the app login page and bypasses the restriction on unknown numbers

Website Enrolment/Email Link

If a device is new and has no users, the enrol screen (<https://iot-portal.com/enrol>) can be used to insert your email into the device for access as a 'Full Access' email address. A semi-permanent link is then sent to you via email which will return you to the Live Screen should you click on it.

If the link is lost you can visit <https://iot-portal.com/index#login3> in order to send a new email with a link in it.

The Portal: <https://iot-portal.com/>

You can view all devices that contain your phone number as an 'Admin' or 'Master' number on the portal website. Additionally, any unit that has your email address set to 'Full Access' will be displayed in the portal. If you have a unique product code for your devices they will also be displayed in the portal.

You can click on the device and visit that device's Live Screen via the portal. You can also manage a group of devices via the portal itself. We recommend emailing support@iot-portal.com should you require more than a basic means of logging into the individual devices.

The portal stores your credentials as a session so will log you out when not in use.

IoT Portal App: <https://iot-portal.com/app> (Recommended for most users)

The app is a simplified version of the portal. It allows you to quickly get to the Live Screen for any device that has your email address stored in it as a 'Full Access' email address or any device that has your phone number in it stored as an 'Admin' or 'Master' phone.

Your credentials are stored in a cookie which allows you to remain logged in for up to 390 days.

Lost Access

Should you have a device without valid QR Codes and with users already registered in it, please email a picture of the unit to support@iot-portal.com and we will assist you with gaining access.

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Programming via App

The device can be programmed by SMS or via the iot-portal.com app or a mixture of both.

New Users

New installers should scan the 'App Invite' QR code to get to the iot-portal.com app login page. New user phone numbers will not be known to the portal so it will not be possible for the portal to send login SMS messages to these numbers. The 'App Invite' QR code bypasses this restriction. New users can get the app by email address at any time.

Help Video Below



Regular Installers

For users known to the portal, it is preferable to scan the Enrol QR code which will automatically add the device to the user's app.

Installing the App: Android/PC

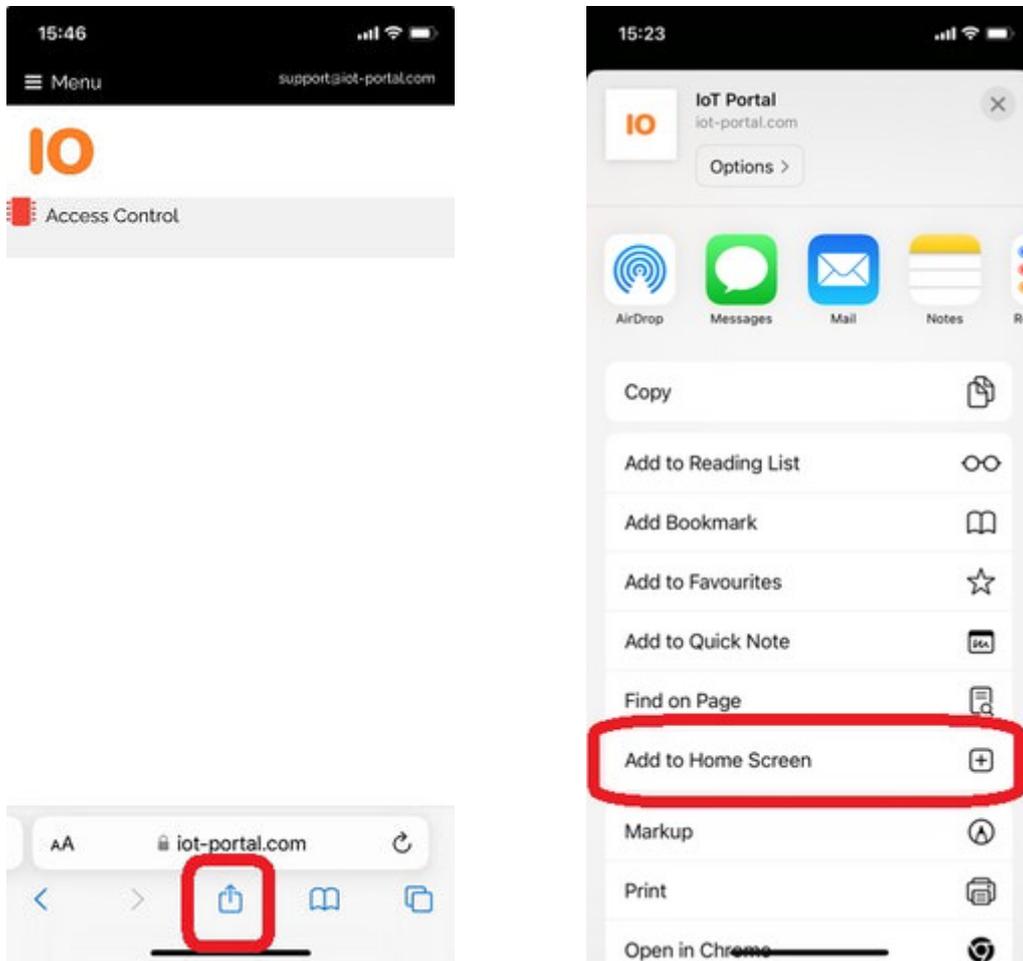


On Android and PC, installing the app can be achieved by clicking the Orange 'Install' button in the top right of the display.

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Installing the App: iPhone

It is likely on iPhones that the 'Install' button does not appear unless using Chrome. To *install* the app, follow the below procedure.

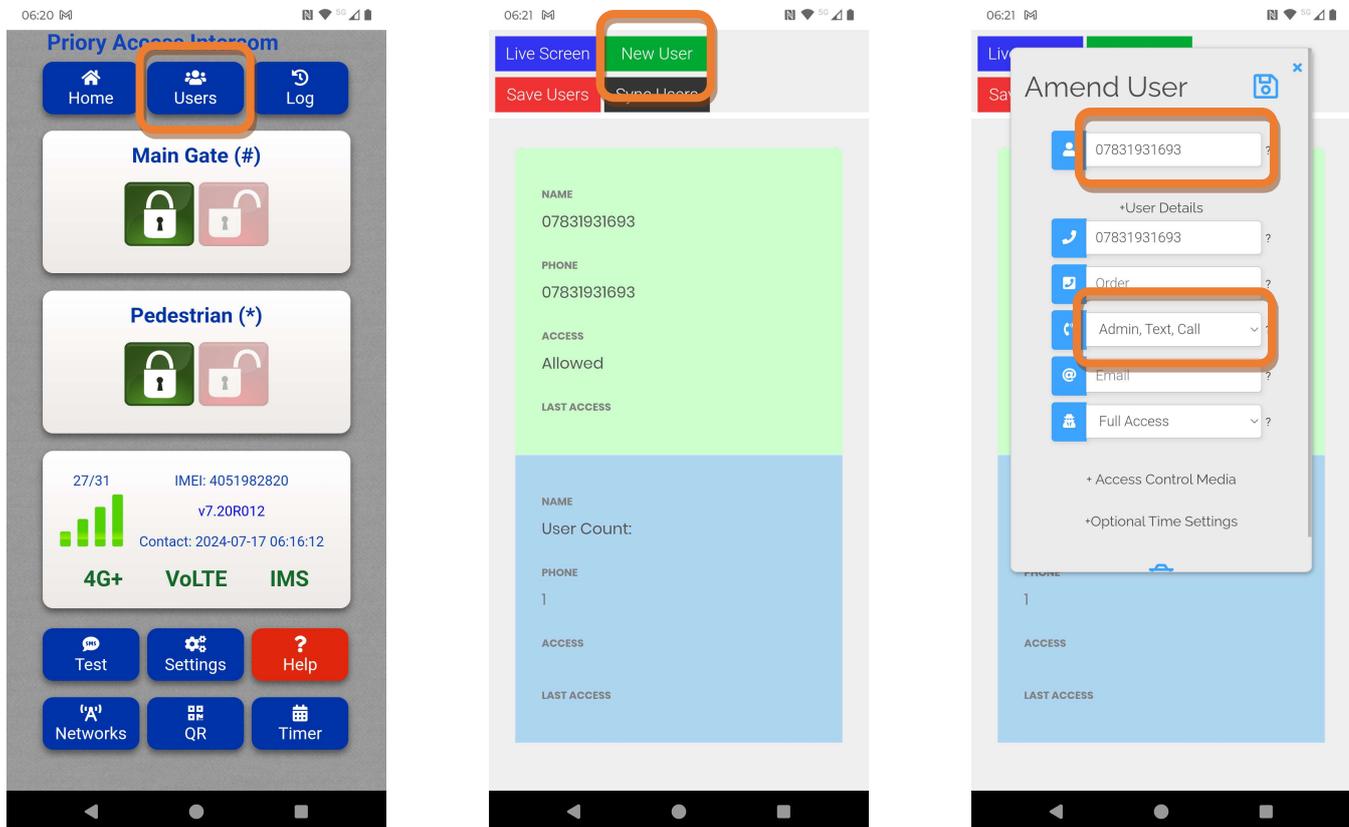


Click the 'Add to Home Screen' button to have app appear as an installed app on the home screen of your device.

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Adding/Amending Users

From the app Home Screen, click the device name (this will be a 10-digit ID unless amended). This will bring up the Live Screen for this device. Clicking the 10-digit ID (or name) will bring up the Change Name modal in order to name the device.



To add and/or amend users, click the Users button at the top of the Live Screen. Click on either an existing user or click the 'New User' button at the top (green button). The username will be the phone number unless amended on this screen (see orange box above).

Name	Enter the user's name
Phone	Enter the user's phone number
Order	Enter a digit (1,2,3 etc...) to specify the order of dialling
Type	Admin, Call and Text are the relevant options for diallers
Email	Enter an email address to login to the app via email (backup method)
Permission (email)	Enter Full Access on any user with access via email

Hover or click the question mark '?' at the end of each input box for more information.

This is the easiest method of setting yourself up on a new device.

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Programming: User Enrolment (Legacy Method)

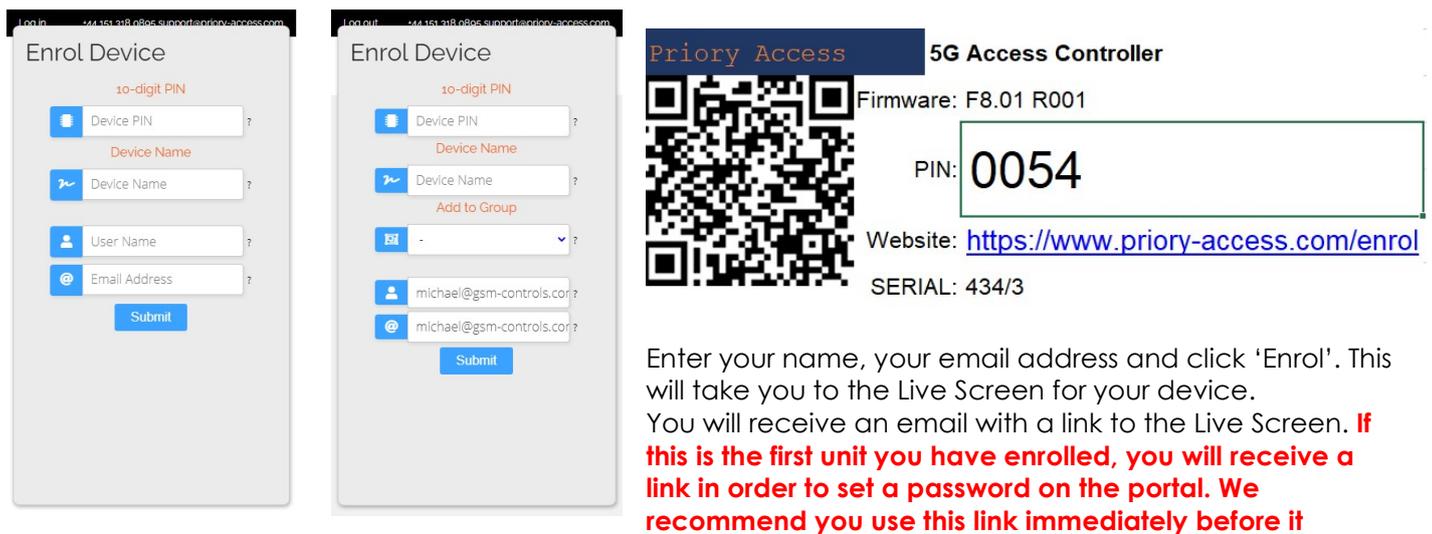
When first powered up, the signal LED (SIG) will initially flash. This will light permanently once a connection has been established. The SIG LED may continue to flash at a lower rate to display the unit is getting a poor signal. So long as the LED is not flashing the system will be operational.

The 5G model may take 5-10 minutes to connect to the network. These units are not intended to be moved very often and save power by storing network settings for the local base stations instead of loading them every time it is powered up. This is why they take time start up. They require extra synchronisation with the network to connect.

If you have access to a smart phone with QR code reader, you can get access directly to the Live Screen and Users page by scanning the **Live Screen QR code** (be aware we also include the 'View Screen' QR code label which gives unauthorised viewers read-only access) which contains a secret encrypted key. To use the QR code, scan the image and navigate to the Users page to add your number and email address. We recommend you add both your mobile number and email address.

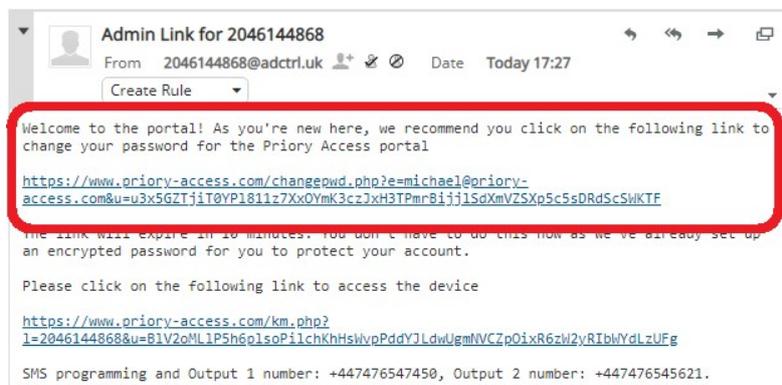
To add users without the QR code, the admin user must enrol himself/herself on the unit by visiting the following address

<https://iot-portal.com/enrol> (for this device ensure you use the iot-portal.com not priory-access.com)



The image shows two screenshots of the 'Enrol Device' form. The left screenshot shows the form with fields for '10-digit PIN', 'Device PIN', 'Device Name', 'User Name', and 'Email Address'. The right screenshot shows the form with the 'Device Name' field filled with 'Add to Group' and the 'Email Address' field filled with 'michael@gsm-controls.com'. Below the screenshots is a QR code labeled 'Priory Access' and '5G Access Controller'. To the right of the QR code, the following information is displayed: Firmware: F8.01 R001, PIN: 0054, Website: <https://www.priory-access.com/enrol>, and SERIAL: 434/3.

Enter your name, your email address and click 'Enrol'. This will take you to the Live Screen for your device. You will receive an email with a link to the Live Screen. **If this is the first unit you have enrolled, you will receive a link in order to set a password on the portal. We recommend you use this link immediately before it expires.**



It is possible to program the dialler using SMS text messages or via the online portal. To program the dialler via SMS, please see the "SMS Programming and Operation" Quick Start Guide.

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Users

To access the telephone numbers and email addresses click the 'Users' button.

User	Phone	Type	Email
All	All	All	All
Joe Bloggs		Master, Text, Call	joe@bloggs.com
Page			

The 'Phone' column will be highlighted in red to indicate you should add your number by clicking the 'Amend' button. Please check your email address carefully for errors!

If you add yourself as a 'Master User' you will be able to recover your account if there is a problem with your email address.
 A Text number is sent an SMS text message when the inputs are triggered
 A Call number is dialled with an input is triggered. During the call we will read out the message or can play an mp3 file



To add more users, click the 'New User' button at the top of the page. When adding a new user each column is optional. There is no need to add a number and email address for each user. Leaving a column blank is generally OK.

If you would like the user to have Full Access to all settings, then select 'Full Access' from the drop-down menu. Open/Close allows the user access to the 'Open Gate' page and 'None' removes all access without deleting the user.

Events

You can tailor specific email events for each user by amending the 'Events' box. There are some preset events for each system, such as, 'Alarm', 'Set/Unset'. To customise the email events the corresponding event number is required to be entered

Input 1 Low 40, Input 1 High 41
 Input 2 Low 42, Input 2 High 43

Expiry

After the expiry date, the user will be deleted.

Further help and information is available at: <https://iot-portal.com>

User Details

16:49 [Icons: WhatsApp, Gmail, Calendar, Signal, 4G, Battery]

Each section has a help pop-up box.

Amend User

Click 'Help' for further information

User name should be entered here

User (Help)
Andrew

For door readers with a keypad, optionally enter a keypad code here

Access Control Media

Keypad Code (Help)
12345

Tag Code (Help)
A18CD846

Send code to user in SMS

Void Tag

Mail My Tag

If you would like the code sent to the user, check this checkbox and fill in the phone number below.

To disable the user's access but retain their tag ID (recommended), click void tag

Mail My Tag – clicking this box pre-fills the Tag ID box. Once the save button is pressed the administrator is directed to an address form for the mailing address of the user.

The tag ID is entered here

If you clicked on the tag ID on the Live Screen it will be pre-filled.

There are multiple ways of obtaining a tag ID:

- Priory Tag label
- Using NFC Tools
- Obtain from door reader
- Obtain from USB reader

Phone Settings

Phone (Help)	Order (Optional)
Type (Help)	
Admin	

The phone number can be added for a general user so they can receive their keypad code via SMS (Type should be 'User').

Admin users should add their number for important information from the controller such as void tag attempts or the controller needs attention.

Email Details

Email (Help)

Email Notifications (Help)

Permission (Help)
Full Access

Email addresses should be added for Admin users so they can be sent a link to the door controller or log in to the group view via the iot-portal.com main page.

Admin users should have 'Full Access' selected from the permission drop down box.

If invalid/void tag events require email notification, select 'Full' from the email notifications drop down box.

Optional Time Settings

Start Time (Help)

End Time (Help)

Weekdays (Help)
[X]S [X]M [X]T [X]W [X]T [X]F [X]S

Expiry Date (Help)

Each user can have time restrictions placed on their access for each door.

Daily start and end times can be specified in this section along with the ability to restrict access to specified days.

An expiry date may be added to ensure access is automatically removed for this user on the specified date.

When either 'Save' button is pressed, the cloud database is instantly updated. An attempt is made to contact the controller if it is available. If the controller is offline an attempt will be made at a later date until the data is confirmed.

Save
New Key

Cancel
Delete

Removes user from database

The 'New Key' button generates a new secure link for an Admin user if the original has been unintentionally shared



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SMS Programming and Operation

Whilst on-site it is often easier to program and operate the system via SMS. Both online and SMS programming/operation are available and can be used in conjunction with each other. There is a small charge made against your PAYG balance for receiving SMS messages. This is typically £0.01. Please check your 'Live Screen' for per unit pricing. The optional reply is charged at your standard SMS rate.

To enrol your phone via SMS you will need the 10-digit PIN number for your device shown above. Please send the following SMS to +44 7429 750 090:

Enrol <pin>

For example, if your PIN is 0123456789 then you should send:

Enrol 0123456789

The system will reply to your message with your Output 1 telephone number. This should be stored as your SMS programming telephone number. It is also the number for operating Output 1 by SMS and dial-in.

Output 2 has its own telephone number which is also contained in the message and can be found by sending the following message to your new Output 1/SMS programming number (obtained in the previous step):

Output 2

To operate the output relay on your unit simply send the following commands via SMS to the corresponding telephone number

On	...activate the output indefinitely
Open	...activate the output indefinitely
On 10	...activate the output for 10 seconds
On 5m	...activate the output for 5 minutes
Close	...deactivate the output
Off	...deactivate the output

Please note, it does **not** matter whether the message is in **UPPER CASE, lower case or a MiXtUrE** of both upper and lower case.

To **add** dial-to-open number the ADD command is used as follows:

Add 07123456789. ...adds 07123456789

To remove all occurrences of a number:

Remove 07123456789. ...removes 07123456789 (all occurrences)

To add numbers to call and text when the alarm sounds/inputs are triggered send the following commands:

Call 07123456789 ...calls 07123456789 when the inputs are triggered
Text 07123456789 ...text message 07123456789 when the inputs are triggered

To add a master number (who can administer other users) send the following SMS:

Master 07123456789 ...gives 07123456789 admin rights to the unit (along with the original enroller)

There is no limit to how many numbers of any variety that can be stored. We recommend only 1 or 2 master numbers as they are contacted when there is a problem or the accounts needs topping up.

To get a list of numbers associated with this unit send the following SMS

List ...returns a list of all of the numbers in the database

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To access the Live Screen on a unit enrolled by SMS, send the following message:

Get link ...returns a clickable link to the 'Live Screen'

To check you PAYG Balance send the following SMS:

Balance ...returns your current balance (in GBP)

To check your current incoming and outgoing call charges send the following:

Charges ...return incoming and outgoing SMS and Call charges

List of Commands

	Additional Instructions		
Add	<number>		Adds a 'dial-to-open' number
Balance			Displays PAYG Balance
Call	<number>		Add number to call when input triggered
Charges			Displays usage charges
Close			Deactivates relay corresponding to number
CSQ			Returns signal strength out of 31
Enrol	<pin number>		Enrols a new phone
Get Link			Returns a clickable link for Live Screen
List			Returns numbers in database
Master	<number>		Adds admin phone number
On		<seconds> <minutes>m	Activates relay corresponding to number
Open		<seconds> <minutes>m	Activates relay corresponding to number
Output	<output>		Displays output information
Pulse			Pulses relay corresponding to number
Remove	<number>		Removes a number from the database
Relay Time	<seconds>	<minutes>m	Changes relay pulse time (dial-to-open)
Reply	On	Off	Switches SMS confirmation on and off
Signal			Returns signal strength out of 31
Status			Input and Output states

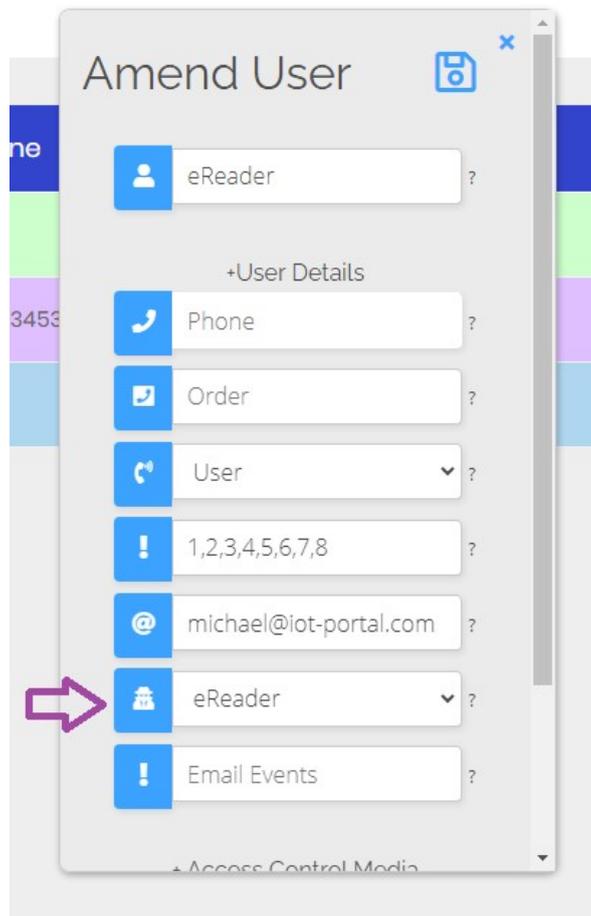
Further help and information is available at: <https://iot-portal.com/help>

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Email Programming and Control

Each device can be programmed and controlled by email. This is useful for adding multiple users at once or for activating the output relays by an automated email message. For example, you may get an automated email from a 3rd party and would like this to operate a light or motor for example.

For an email address to control or program the device, it must be known to the system. The operator should go to the 'Users' page from the 'Live Screen' and add a new user with the desired email address. The user must be set to an 'eReader' email address as shown below:



eReader email addresses show up on the Users page in purple. Emails sent from this email address will be able to change settings and control the output relays for this device. Emails are not as secure as phone numbers and can be easily spoofed, so ensure the eReader setting is only used during desired periods of programming and control. For extra security an email API key can also be generated which can be included in the email body. This will ensure spoof emails are disregarded.

To send commands to the device via email, messages should be sent to:

things@iot-portal.com

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This is the standard email address for devices. The subject line of the email must contain only the 10-digit code for your device and nothing else.

Email Commands

Multiple commands may be sent per email, each separated by a new line. Each command will be processed and a reply will be sent for each command in 1 email.

Most SMS commands are accepted by email along with the user command:

User *name,phone,type,email,events*

For example:

User Michael,07123456789,master,michael@iot-portal.com,12345678

The type field can be: *master, text, call* or *user* (for dial-to-open). If a field isn't required leave it blank but insert a comma:

User Michael,,,michael@iot-portal.com,12345678

The events are input numbers for inputs 1 to 8.

The '**delete users**' command can be used with the API key to remove all 'users' leaving any admin, call, text phone or Full Access email address.

Controlling the output relays

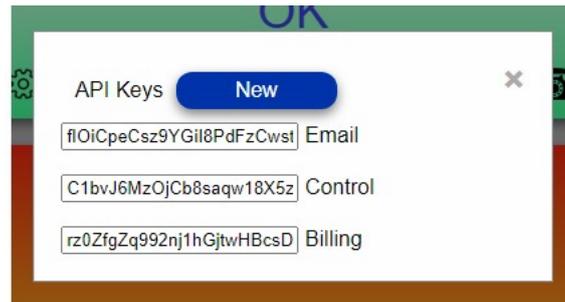
You should specify the output you would like to operate with the # or * symbol as follows:

On#
Off#
Pulse*
Open*
Close*

Securing with an API Key

An API key can be generated on the Live Screen by clicking 'Show Tools'>'Create/View API Keys'.

If the email API key box is empty, click 'New'



To make use of the email API you should select 'eReaderAPI' as the user type. The API Key must be on the first line of the body of the email in order for eReaderAPI emails to be read.

Declaration of Conformity

Document Number: DOC_ZR305_DoC

Issuer's Name: Priory Access Ltd

Issuer's Address: 95A Allerton Road, Liverpool L182DD

Object of the declaration: ZR305

The object of the declaration described above is in the conformity with the relevant Union harmonisation legislation:

2014/108/EC The Electromagnetic Compatibility

Directive 2011/65/EU The Restriction of Hazardous Substances

Directive 2014/53/EU RED Art3.1 (b) Radio Equipment Directive Conformity is shown by compliance with the applicable requirements of the following documents:

Safety: EN 60950-1:2006+A2:2013

EMC: EN 301 489-1 V1.9.2 (2011-09) EN 301 489-7 V1.3.1 (2005-11) EN 301 489-17 V2.2.1 (2012-09) EN 301 489-24 V1.5.1 (2010-10)

Radio: EN 301 511 V12.0.0 (2015-02) EN 300 328 V1.9.1 (2015-02) EN 301908-1 V7.0.1 (2014-11) EN 301908-2 V6.2.1 (2013-10)

Technical Construction File required by this directive is maintained at 95A Allerton Road, L18 2DD

Signed for and on behalf of Priory Access Ltd

Name: Michael Beaver

Position: Director

Date: 02/11/2024

Made in UK