



⁷⁰⁰⁰
iris+

6611/B

Relay Output Expansion Module



Operating Instructions

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Introduction

These operating instructions have been produced to assist with adding the relay output expansion module to the Iris+ receiver. Each module provides 8x programmable relay outputs. A maximum of two modules can be added to the system.

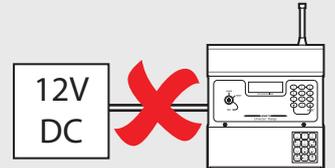
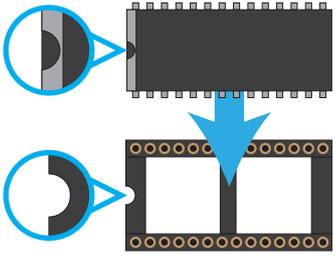
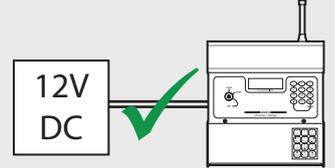
For Iris+ receivers pre-dating March 2017, an Iris+ software upgrade will be required to connect the module to the Iris+ receiver's 485 bus. The part number for the software is:

7202	Complete Iris Software Upgrade
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For more information on Iris+ software compatibility, contact EMS Technical Support.

Iris+ software upgrade - *if required*

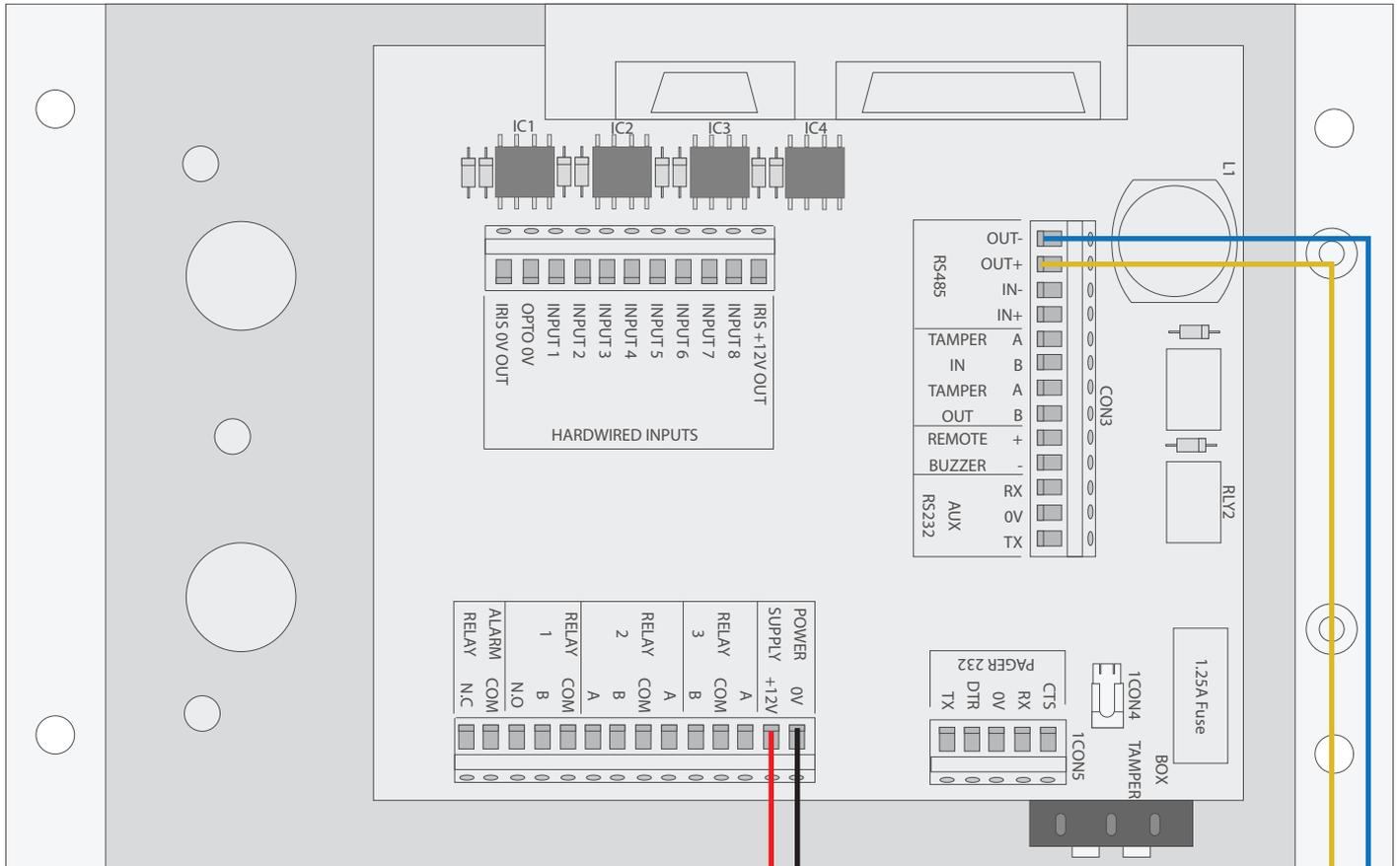
If 7202 software has been ordered and requires fitting, the following process must be undertaken:

<p>Step 1 Disconnect the 12V supply to the Iris+ receiver.</p>	
<p>Step 2 Replace all four software chips into the software chip sockets. Note: ensure that the orientation markings are observed.</p>	
<p>Step 3 Restore power to the Iris+ receiver. Observe that the Iris+ goes through its normal start up sequence.</p>	
<p>Step 4 The software is now upgraded.</p>	

Wiring connections

Note: disconnect the 12V supply to the Iris+ receiver, prior to making wiring connections.

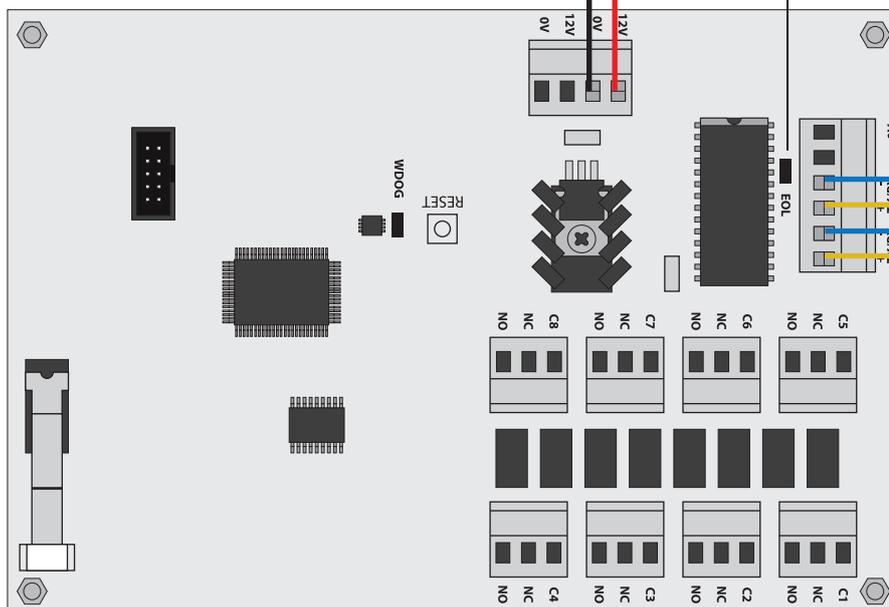
IRIS+ back box



To 12Vdc PSU

Connect jumper if end of line

6611/B PCB



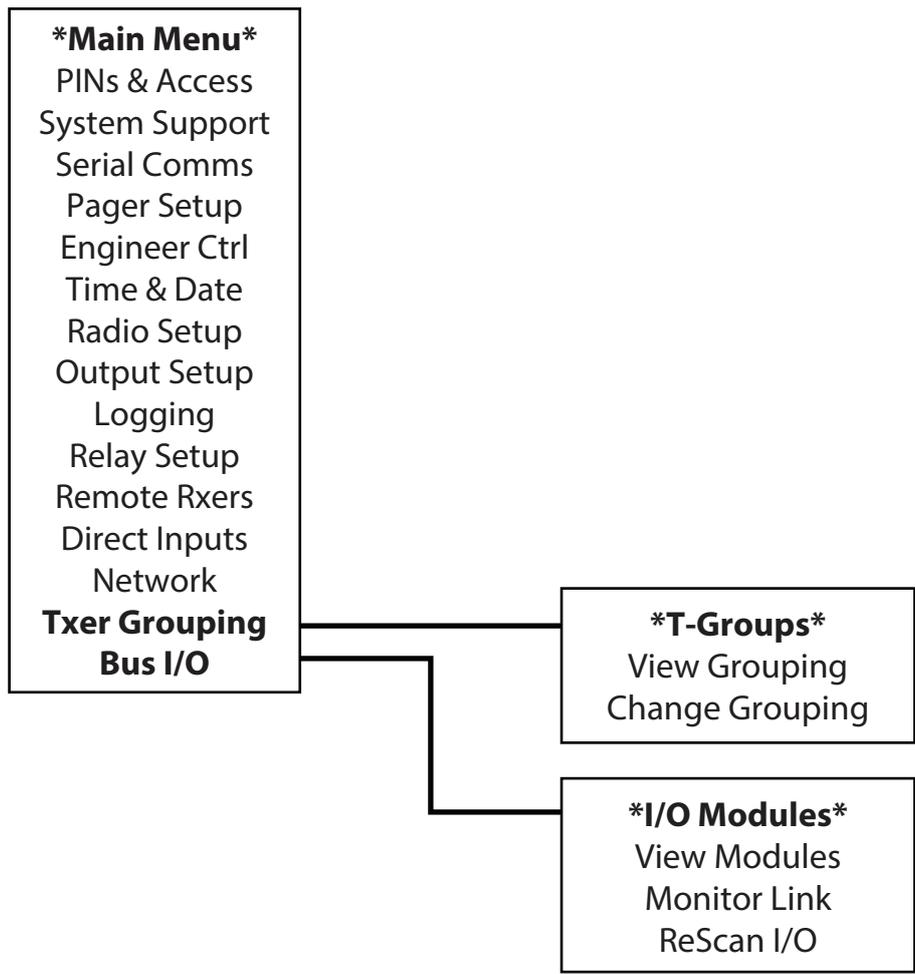
TX/RX -
TX/RX +
TX/RX -
TX/RX +

To TX/RX - on next module
To TX/RX + on next module

Configuration overview

Each of the system's wireless transmitters can be allocated to a group. There are 16 groups that can then be assigned to, to make one or more relays operate. With two modules connected to the Iris+ receiver, it is possible to allocate an individual relay output for each of the 16 groups. This also allows a wide variety of programming options, where designated transmitters operate specific relays.

An overview of the Iris+ menu structure is shown below.



Bringing module(s) online

To allow communication between the Iris+ receiver and the output modules, parameters must be programmed in the Iris+ receiver's Bus I/O and Serial Comms Menus.

The Iris+ and 6611/B module should be wired as shown in the 'Wiring Connections' section and 12Vdc power must be restored to the Iris+ receiver and the output module.

Access the main menu as detailed within the 'Accessing the engineering menu' section of the Iris+ Installation Guide (MK192), then follow the steps below:

- Press the  button until the screen displays:

```
| System Support |
|> Serial Comms <|
| Pager Setup   |
| 2 = Help      13: 45|
```

- Press the  button. The screen will change to display:

```
| ** Serial Comms ** |
|> Device Table   <|
| Re-Start Bus    |
| 2 = Help        13: 45|
```

- Press the  button until the screen displays:

```
| Re-online Device |
|> Bus Master Setup <|
| Bus Remote Setup |
| 2 = Help          13: 45|
```

- Press the  button. The screen will change to display:

```
| ** Bus Master Setup ** |
|> Polling Baudrate <|
| Auto-Re-online        |
| 2 = Help              13: 45|
```

- Press the  button. The screen will change to display:

```
Polling Baud
is 384, Enter rate
(MAX 768 : _
^ = Done v = Del  13: 46
```

- Enter 384, followed by the  button. The screen will display:

```
| ** Bus Master Setup ** |
|> Polling Baudrate <|
| Auto-Re-online        |
| 2 = Help              13: 46|
```

- Press the  button until the screen displays:

```
| Polling Baudrate |
|> Auto Re-online <|
| Port To Use      |
| 2 = Help         13: 46|
```

- Press the  button. The screen will change to display:

```
Auto Re-online
DISABLED
Enable?
1 = Yes 0 = No  13: 46
```

- Press the **1** button. The screen will change to display:

```

Auto Re-online
Now ENABLED

Press any key      13: 47
  
```

- Press any button. The screen will change to display:

```

|   Polling Baudrate   |
>   Auto Re-online   <
|   Port To Use       |
2 = Help              13: 47
  
```

- Press the **▼** button until the screen displays:

```

|   Auto Re-online   |
>   Port To Use     <
| ^^^^^^^^^^^^^^^^^ |
2 = Help              13: 47
  
```

- Press the **1** button. The screen will change to display:

```

Master port = 0
0 = OFF, 1 = RS485
2 = Pager 232 > _
^ = Done v = Del   13: 47
  
```

- Press the **1** button for RS485, then press the **▲** button. The screen will change to display:

```

|   Auto Re-online   |
>   Port To Use     <
| ^^^^^^^^^^^^^^^^^ |
2 = Help              13: 48
  
```

- Press the **3** button once. The screen will change to display:

```

|   Re-online Device |
>   Bus Master Setup <
|   Bus Remote Setup |
2 = Help              13: 48
  
```

- Press the **▲** button until the screen displays:

```

|   Device Table     |
>   Restart Bus     <
|   Re-online Device |
2 = Help              13: 48
  
```

- Press the **1** button. This will re-initialise the bus. Once complete, the screen will change to display:

```

Re-Initialising Bus
Please Wait ..... *Done*

Push Any Key      13: 48
  
```

- Press the **▲** button until the screen displays:

```

|   ** Serial Comms ** |
>   Device Table       <
|   Re-Start Bus      |
2 = Help              13: 49
  
```

- Press the **1** button and the screen will enter the device bus as shown.

```

| 00/Local           |
> Pager 232, ONLINE <
| 00,80              |
2 = Help              13:49
  
```

- Press the **▼** button until the 6611b's address is shown. It should now be ONLINE as shown.

```

| 03/Remote 8-way   |
> I/O, ONLINE       <
| 1,80               |
2 = Help              13:49
  
```

- Press the (3) button twice. The screen will display:

```

|  ** Main Menu **  |
|  > Pins & Access  < |
|  System Support  |
|  2 = Help        13:49 |

```

- Press the (v) button until the screen displays:

```

|  Txer Grouping  |
|  > Bus I/O      < |
|  ^^^^^^^^^^^^^^ |
|  2 = Help        13:50 |

```

- Press the (1) button. The screen will change to display:

```

|  ** I/O Modules ** |
|  > View Modules   < |
|  Monitor Link     |
|  2 = Help         13:50 |

```

- Press the (v) button until the screen displays:

```

|  Monitor Link  |
|  > Rescan I/O  < |
|  ^^^^^^^^^^^^^^ |
|  2 = Help      13:50 |

```

- Press the (1) button. The screen will change to display:

```

Rescan I/O !
Are you sure ?

1 = Yes 0 = No    13:50

```

- Press the (1) button. The screen will change to display:

```

Performing Rescan
please wait....

13:51

```

- Followed by:

```

Rescan Complete
Push any key

13:51

```

- Press the (1) button twice. The screen will change to display:
The module(s) should now be online.

```

|  * Modules Found * |
|  Remote 8 way I/O  |
|  Unit 03, ONLINE  |
|  2 = Help          13:51 |

```

- Press the (3) button twice to return to the 'Main Menu':

```

|  ** Main Menu **  |
|  > Pins & Access  < |
|  System Support  |
|  2 = Help        13:51 |

```

Viewing transmitter grouping

To view transmitter grouping, access the main menu as detailed within the 'Accessing the engineering menu' section of the Iris+ Installation Guide (MK192), then follow the steps below:

- Press the  button until the screen displays:
- Press the  button. The screen will change to display:
- Press the  button. The screen will change to display the first transmitter group and its associated event type. e.g.
- Press the  button. The screen will change to display the first transmitter number of items (transmitters) within the transmitter group. e.g.
- Continue pressing the  button to view the addresses of the transmitters in the group. e.g.
- Press the  button until 'TGroup No:1' is highlighted as shown:
- Press the  button to view the next transmitter group:
- The  button can again be used to view the group. Repeat the previous three steps to view all of the groups as required.
- Press the  button twice to return to the main menu:

```

|      Network      |
| > Txer Grouping < |
|      Bus I/O      |
| 2 = Help          13: 51 |
  
```

```

|  ** T-Groups **  |
| > View Grouping < |
| Change Grouping  |
| 2 = Help          13: 51 |
  
```

```

|  ** T-Groups **  |
| > TGroup No: 1 < |
| Event: Alarm     |
| 2 = Help          13: 51 |
  
```

```

| TGroup No: 1     |
| > Event: Alarm < |
| No of Items: 2  |
| 2 = Help          13: 51 |
  
```

```

| Handpush 001    |
| > Handpush 002 < |
| ^^^^^^^^^^^^^^^ |
| 13: 52          |
  
```

```

|  ** T-Groups **  |
| > TGroup No: 1 < |
| Event: Alarm     |
| 2 = Help          13: 52 |
  
```

```

|  ** T-Groups **  |
| > TGroup No: 2 < |
| Event: Alarm     |
| 2 = Help          13: 52 |
  
```

```

| Handpush 003    |
| > Handpush 004 < |
| Handpush 005    |
| 13: 52          |
  
```

```

|  ** Main Menu **  |
| > Pins & Access < |
| System Support   |
| 2 = Help          13: 53 |
  
```

Changing transmitter grouping

The 'Change Grouping' menu allows the various groups to be altered. There are a maximum of 16 groups available. Each group has a number of 'Event' options. The event can best be described as the type of signal that the group will respond to. Event are shown below:

Alarm	An 'Alarm' signal from any transmitter in the group.
Local	A 'Local' signal from any transmitter in the group.
P-Call	A 'P-Call Alarm' signal from any personnel call transmitter in the group.
X-Alarm	Any 'Local' or 'P-Call' signal but NOT an 'Alarm' signal from any transmitter in the group.
X-Local	Any 'Alarm' or 'P-Call' signal but NOT a 'Local' signal from any transmitter in the group.
Any	Any signal from any transmitter in the group.
None	No operation

The example below shows Handpush 001 assigned to operate Output 1 (Alarm Relay) upon an alarm transmission.

Access the main menu as detailed within the 'Accessing the engineering menu' section of the Iris+ Installation Guide (MK192), then follow the steps below:

- Press the  button until the screen displays:
- Press the  button. The screen will change to display:
- Press the  button until the screen displays:
- Press the  button. The screen will change to display: *Note: pressing the  button, will change the group number if required.*
- Press the  button once and the screen will display:
- Press the  button until the required action is displayed: *In this example Event: Alarm*
- Press the  button once and the screen will display:
- Press the  button. The screen will change to show a list of the transmitters programmed into the system: *If required, press  &  until the required device is selected.*
- Press the  button to confirm selection of the required transmitter. The screen will change to display:

```

|      Network      |
| > Txer Grouping < |
|      Bus I/O     |
| 2 = Help        13: 59 |
  
```

```

|      ** T-Groups ** |
| > View Grouping < |
| Change Grouping |
| 2 = Help        13: 59 |
  
```

```

|      View Grouping |
| > Change Grouping < |
| ^^^^^^^^^^^^^^^^^ |
| 2=Help          14:00 |
  
```

```

|      ** T - Groups ** |
| > Tgroup No: 1 < |
| Event : None |
| 2=Help        14:00 |
  
```

```

|      TGroup No: 1 |
| > Event: None < |
| No of Items: 0 |
| 2=Help          14:00 |
  
```

```

|      TGroup No: 1 |
| > Event: Alarm < |
| No of Items: 0 |
| 2=Help          14:00 |
  
```

```

|      Event: Alarm |
| > No of Items: 0 < |
| ^^^^^^^^^^^^^^^^^ |
| 2=Help          14:01 |
  
```

```

|      ** Select Item ** |
| > Hand Push 001 < |
|-----|
| 2=Help          14:01 |
  
```

```

Saving Data
Please Wait

2=Help          14:01
  
```

- Followed by:
Note repeat the previous steps to add other transmitters as required.

```

|   Event: Alarm   |
| > No of Items: 1 <
| ^^^^^^^^^^^^^^^ |
| 2=Help          14:01

```

- Once complete, press the (3) button twice to return to the Main Menu.

```

|   ** Main Menu **   |
| > Pins & Access    <
| System Support     |
| 2 = Help           14:02

```

Next, the T-Group requires assigning to an output. This is achieved by following the steps:

- From the main menu, press the (v) button until the screen displays:

```

|   Radio Setup     |
| > Output Setup   <
| Logging          |
| 2 = Help         14:03

```

- Press the (1) button. The screen will change to display:

```

|   ** Binary Outputs ** |
| > Test Outputs        <
| Output Latch Times   |
| 2 = Help             14:03

```

- Press the (v) button until the screen displays:

```

| Output Permissions |
| > Output On Reasons <
| Output Off Reasons |
| 2 = Help           14:03

```

- Press the (1) button. The screen will change to display:

```

Output On Reasons
1 = Change On Reason
3 = Exit / Finish
Push Any Key      14:03

```

- Press the (1) button once and the screen will display:
Note: press the (v) button to scroll through the available outputs if required.

```

| * Output on Reason * |
| > 1 / 'Un-named' is <
| Switched on by      |
| 2 = Help            14:04

```

- Press the (1) button and the screen will display:

```

Edit on Reason
for Output 1
1 = de / select reason
Push Any Key      14:04

```

- Press ANY button and the screen will display:

```

| * Select on Reason * |
| > NOTHING           <
| -----            |
| 2 = Help           14:04

```

- Press the (v) button until the required Txer group is shown:

```

| -----            |
| > Event : 'Txer Group <
| 1 ON'              |
| 2 = Help           14:04

```

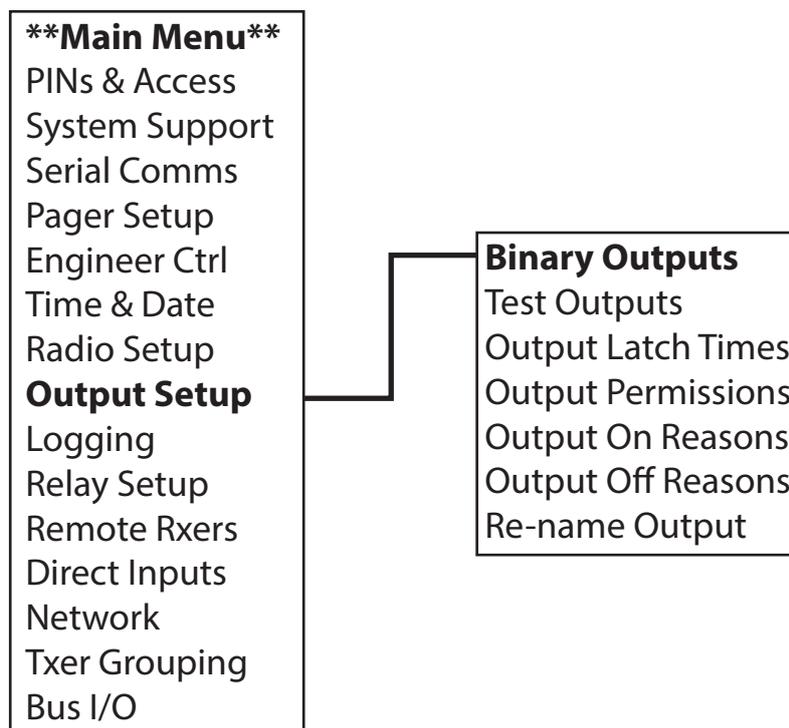
- Press the ① button to confirm selection of the group. The screen will change to show:

```

|-----|
| > *REASON*SELECTED* <
|   Event: Txer Group 1   |
| 2=Help                   14:05
|-----|

```

- Press the ③ button until SYSTEM RESET is displayed. Turn the keyswitch to the Clear position. 'System Clear' should now be displayed. Handpush 001 should now be tested to ensure that only an alarm transmission from this unit operates Output 1. (The Alarm Relay on the Iris+ PCB and Relay 1 on the 6611/B unit). Further programming of the output can be selected from the table shown below. This will enable the time of the outputs operation and the naming of the output etc. to be configured.

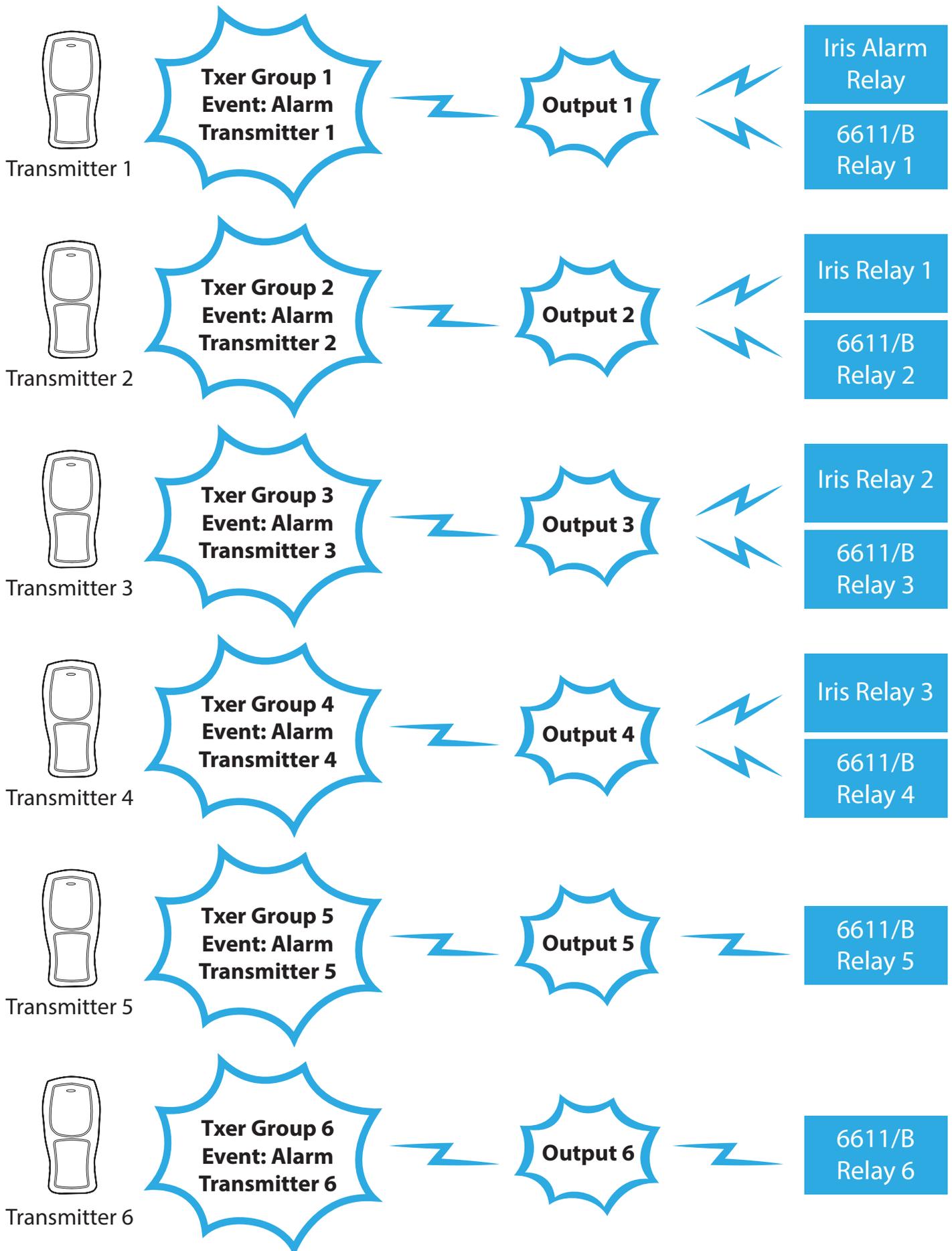


The steps shown above can be repeated for other transmitters and relay configurations. Therefore adding additional transmitters to the groups or changing the event that activates the group. In the block diagram example the transmitters have been grouped and assigned as follows:

			Iris+ relays	6611/B relays
Handpush 001	Event: Alarm	Output 1: Txer Group 1 On	Alarm Relay	Relay 1
Handpush 002	Event: Alarm	Output 2: Txer Group 2 On	Relay 1	Relay 2
Handpush 003	Event: Alarm	Output 3: Txer Group 3 On	Relay 2	Relay 3
Handpush 004	Event: Alarm	Output 4: Txer Group 4 On	Relay 3	Relay 4
Handpush 005	Event: Alarm	Output 5: Txer Group 5 On	-	Relay 5
Handpush 006	Event: Alarm	Output 6: Txer Group 6 On	-	Relay 6

This will enable each transmitter to operate an individual relay on an alarm activation.

Example configuration



Removing transmitters from grouping

Access the main menu as detailed within the 'Accessing the engineering menu' section of the Iris+ Installation Guide (MK192), then follow the steps below:

- Press the  button until the screen displays:
- Press the  button. The screen will change to display:
- Press the  button until the screen displays:
- Press the  button. The screen will change to display:
- **If required**, press the  button, to change the group number.
- Press the  button until the device to be removed is highlighted between the chevrons (><):
This example shows Handpush 001 highlighted.
- Press the  button. The screen will request confirmation as shown:
- Press the  button to confirm the device deletion. The screen will display:
- Press the  button twice to return to the Main Menu.

```

|      Network      |
| > Txer Grouping < |
|      Bus I/O     |
| 2 = Help        14:09 |
  
```

```

| ** T - Groups ** |
| > View Grouping < |
| Change Grouping  |
| 2 = Help        14:09 |
  
```

```

| View Grouping    |
| > Change Grouping < |
| ^^^^^^^^^^^^^^^^^ |
| 2 = Help        14:09 |
  
```

```

| ** T - Groups ** |
| > Tgroup No: 1 < |
| Event : Alarm    |
| 2 = Help        14:09 |
  
```

```

| ** T - Groups ** |
| > Tgroup No: 2 < |
| Event : Alarm    |
| 2 = Help        14:09 |
  
```

```

| No of Items: 1   |
| > Handpush 001 < |
| -----|
| 2 = Help        14:10 |
  
```

```

Hand Push 001

Delete ?
1 = Yes 0 = No    14:10
  
```

```

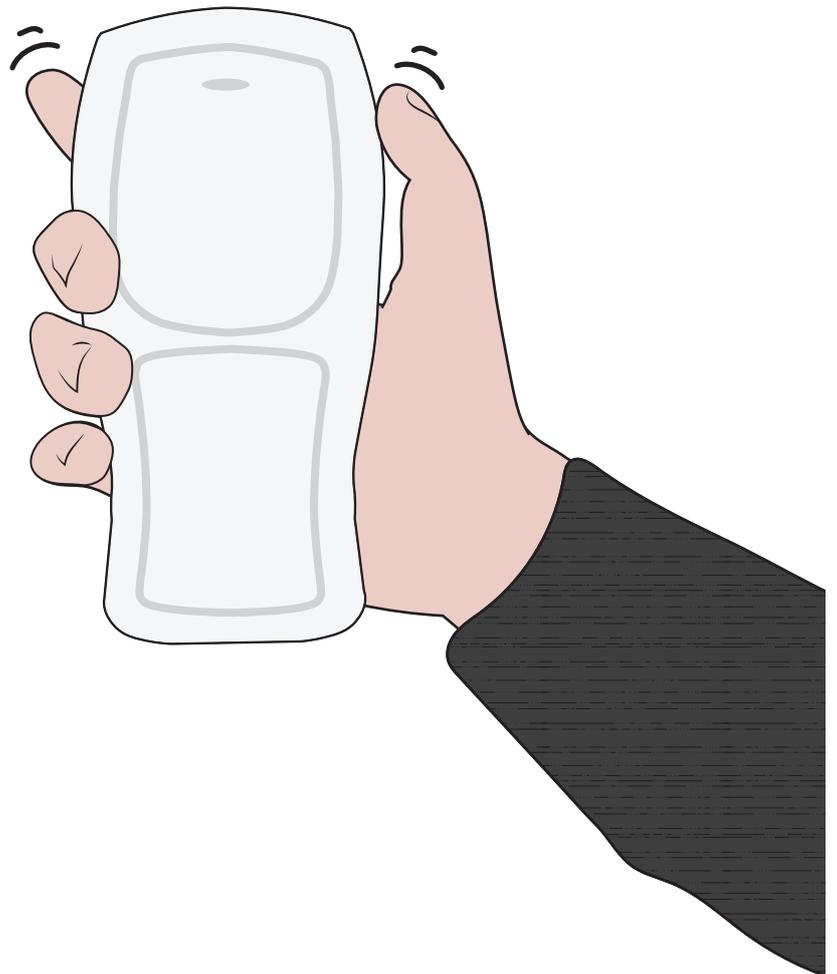
| Event: Alarm     |
| > No of Items: 0 < |
| ^^^^^^^^^^^^^^^^^ |
| 2 = Help        14:10 |
  
```

```

| ** Main Menu ** |
| > Pins & Access < |
| System Support  |
| 2 = Help        13:53 |
  
```

Test devices

Ensure that the outputs have been set up correctly, by connecting a multimeter across the relay output contacts (set to the ohms range) and check that only the expected relays change state when transmitters generate their respective alarm and local signals.



Notes



EMS Ltd.
Technology House
Sea Street, Herne Bay,
Kent, CT6 8JZ.

t: +44 (0) 1227 369570
f: +44 (0) 1227 369679
www.emsgroup.co.uk