



Cygnus Wireless Alarm

Quick Guide

VERSION INFORMATION

| VERSION | DATE | COMMENTS |
|---------|----------|--------------------|
| Issue 1 | 05.09.16 | New issue |
| Issue 2 | 05.10.18 | Information Update |
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1 HEALTH AND SAFETY



Before you begin the installation, carry out a risk assessment of the site.



Before you start work, always make sure that any relevant electrical supply is isolated.



Always wear appropriate Personal Protective Equipment (PPE) when you carry out the installation work. Long sleeves are advised.



Before you use any power tools:

Make sure they are PAT tested.

Visually check the tools for obvious damage.



Take care when using power tools.



Do not handle the PCB motherboards as this could result in an electro-static discharge damaging the board.

2 CYG2, CYG2F, CYG2/85DB ALARM UNITS

Alarm Units raise Fire Alarms if a Fire Call Point button is pressed, a smoke or heat sensor is activated, or if the Evacuate Site button on the control panel is pressed.

2.1 Setting Up

Insert a small screwdriver into the slot at the top of the front cover and unclip the cover (Figure 2-1).



Figure 2-1: Unclip the cover

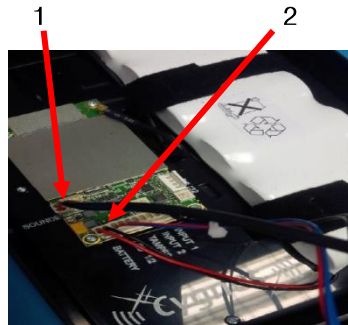


Figure 2-2: Connect the battery and sounder

Hinge the front cover downwards to open it.

Connect the sounder. Fit the sounder connector onto the two pins on the side (1 in Figure 2-2). Make sure the slot on the plug is lined up with the PCB connector to ensure the connection is not reversed.

Connect the battery. The battery connector fits onto the two pins on the left-hand side of the bottom header (2 in Figure 2-2). Make sure the slot on the plug is lined up with the PCB connector to ensure the connection is not reversed.

Close the front cover and make sure it clicks into place.

2.2 In the Event of a Fire

Press the Fire Call Point button (Figure 2-3):

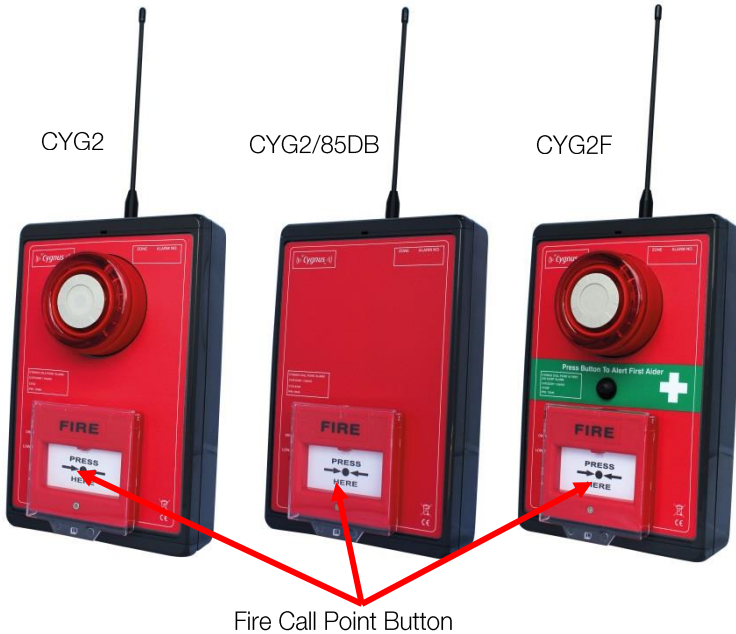


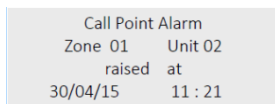
Figure 2-3: Fire Call Point Button

2.2.1 What Happens When a Fire Alarm is Raised?

- The sounder beacon gives an audible alarm at 110dB as well as the flashing beacon at the originating unit and all other units around site (provided there are no timer delays set on other remote devices).
- The event is reported to the Control Panel. The Control Panel sounds its buzzer and flashes the LED above the Alarms button.

2.2.2 At the Control Panel

Press the Alarms button to display the address of the Alarm Unit where the alarm was raised, and the time the alarm was raised.



```
Call Point Alarm
Zone 01  Unit 02
  raised at
30/04/15 11:21
```

Figure 2-4: Control Panel Display Showing Alarm

3 CYG3L, CYG4L ALARM UNITS

Alarm Units automatically raise Fire Alarms if the smoke or heat sensor is activated.



Figure 3-1: CYG3L and CYG4L

3.1 Setting Up

1. Insert a small screwdriver into the slot at the top of the front cover and unclip the cover (Figure 2-1).



Figure 3-2: Unclip the cover

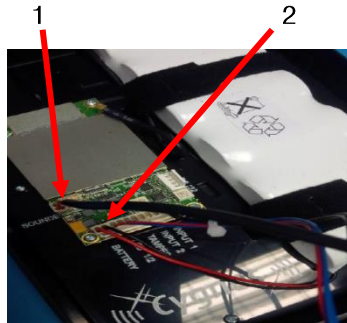


Figure 3-3: Connect the battery and sounder

Hinge the front cover downwards to open it.

Connect sounder into 'sounder' port. Fit the sounder connector onto the two pins on the side (1 in Figure 2-2). Make sure the slot on the plug is lined up with the PCB connector to ensure the connection is not reversed.

Connect the battery. The battery connector fits onto the two pins on the left-hand side of the bottom header (2 in Figure 2-2). Make sure the slot on the plug is lined up with the PCB connector to ensure the connection is not reversed.

Close the front cover and make sure it clicks into place.

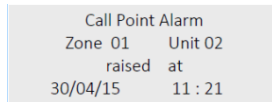
3.2 In the Event of a Fire

3.2.1 What Happens When a Fire Alarm is Raised?

- The detector triggers a site-wide alert on all other remote devices, provided no timer delays are set up on other devices.
- The event is reported to the Control Panel. The Control Panel sounds its buzzer and flashes the LED above the Alarms button.
- The LED will light up on the originating unit.

3.2.2 At the Control Panel

Press the Alarms button to display the address of the Alarm Unit where the alarm was raised, and the time the alarm was raised.



```
Call Point Alarm
Zone 01    Unit 02
   raised  at
30/04/15   11 : 21
```

Figure 3-4: Control Panel Display Showing Alarm

4 CYG5 FIRST AID ALERT UNITS

To raise a first aid alarm, press the green call point on CYG5 alarm or the black button on a CYG2F alarm. This raises a site wide alert on all fire and first aid alarms. This alert is differentiated from a fire alarm by sounding intermittently every 8 seconds.

Note: A First Aid Alert cannot be raised at the Control Panel.

4.1 Setting Up

1. Insert a small screwdriver into the slot at the top of the front cover and unclip the cover.

Hinge the front cover downwards to open it.

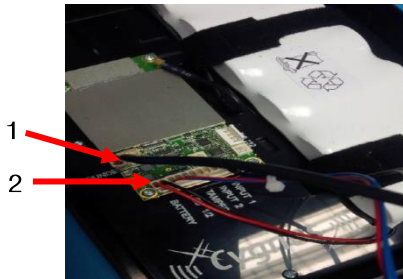


Figure 4-1: Connect the battery and sounder

Connect the sounder. Fit the sounder connector onto the two pins on the side (1 in Figure 4-1). Make sure the slot on the plug is lined up with the PCB connector to ensure the connection is not reversed.

Connect the battery. The battery connector fits onto the two pins on the left hand side of the bottom header (2 in Figure 4-1). Make sure the slot on the plug is lined up with the PCB connector to ensure the connection is not reversed.

Close the front cover and make sure it clicks into place.

4.2 In the Event of a First Aid or Health Emergency

Press the First Aid Call Point button (Figure 4-2).



First Aid Call Point Button

Figure 4-2: CYG5 First Aid Call Point Button

4.2.1 What Happens When a First Aid Alert is Raised?

- An intermittent audible alarm sounds at the originating Alarm Unit.
- Intermittent audible signals sound at all other Alarm Units on site.
- The event is reported to the Control Panel. The Control Panel sounds its buzzer and flashes the LED above the First Aid button.

4.2.2 At the Control Panel

1. The Control Panel displays the address of the Alarm Unit where the alert was raised, and the time the alert was raised.

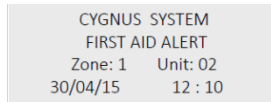


Figure 4-3: Control Panel Display Showing First Aid Alert

2. Press the First Aid button to display the programmed location text (Figure 4-4).

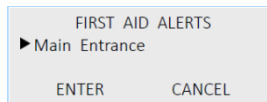


Figure 4-4: Control Panel Display Showing Location of Alert

Press Enter to show more information about the alert (Figure 4-5).

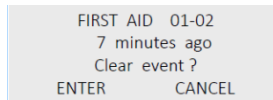


Figure 4-5: Alert details

Press Enter to clear the event, or Cancel to return to the Home screen (Figure 4-6).

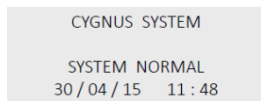


Figure 4-6: System Normal Display

5 SILENCING THE SYSTEM

5.1 Control Panel, Fire Alarm Call Points and Detectors

5.1.1 At an Alarm Unit

Press and hold any call point for 8 seconds.

5.1.2 At the Control Panel

1. Press the Silence System button.
2. Type in the password (default password is 1234).
3. Press Enter to confirm.
4. The panel display returns to the System Normal display (Figure 5-5).

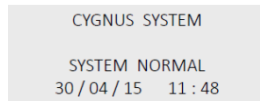


Figure 5-1: System Normal Display

5.2 First Aid Alerts

5.2.1 At the originating Alarm Unit

The LED light on the originating alarm unit will be pulsing quickly. Press and hold the button until the LED pulsing changes. Then press and hold the button again until the LED turns off.

5.2.2 At the Control Panel

1. Press the green First Aid button on the control panel
2. A list of active events will appear. Press enter.
3. Then press enter again to clear events.

NOTE: If more that 1 event is showing, you must cancel all events to silence the first aid sounders.

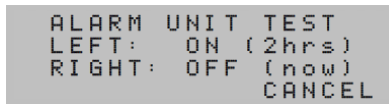
6 USEFUL PANEL FUNCTIONS

6.1 Alarm Unit Test

This function allows the system to be tested silently without the activation of any alarms, it is especially useful during set up to prove the connectivity of the network.

It is important to note that this is a radio connectivity test and does not fulfil the requirement to carry out a functional test under BS5839-1

1. Select Alarm Unit Test: Menu > Settings > Enter > Diagnostics > Enter > Alarm Unit Test > Press Left Arrow on Keypad.



```
ALARM UNIT TEST
LEFT:    ON (2hrs)
RIGHT:   OFF (now)
                CANCEL
```

1. Press the **Cancel** button for no change.

6.2 Walk Test

Press Menu > Settings > Enter > Diagnostics > Enter > Sounder Test > Enter > Walk Round Test > Enter

Once the duration is selected you can then walk around site and press each alarm individually. Each unit will sound for 1 second and then reset itself. This helps to complete a sounder test on all call points.

6.3 Remote Unit Test

Press Menu > Settings > Enter > Diagnostics > Enter > Sounder Test > Enter > Remote Test > Enter

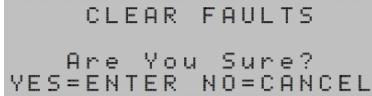
The panel will then show a screen asking for the unit address you wish to activate. Once this has been entered, select Enter and it will then request the duration of the sounder. Once duration is selected, press Enter, and the unit will sound on its own then automatically turn off once the inputted duration is complete.

This helps to test any alarm units on site and locate and 'lost' units.

6.4 Clear Unit Fault Alarms

To clear all fault alarms, and remove any unit still listed as faulty from the control panel's list of units on the network):

1. Press the **Clear Faults** button.



```
CLEAR FAULTS
Are You Sure?
YES=ENTER NO=CANCEL
```

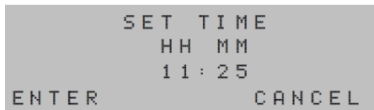
2. Press **Enter** to clear all fault alarms across the network

This function will temporarily remove faults from the system and will return after next 3 heartbeat collections if they are still present on system, the faults should be reported to your maintenance engineer.

DO NOT PERFORM PING TEST

6.5 Set Time and Date

1. To set the time, press the down arrow button once so that the arrow points to Set Time, then press **Enter**.
2. The display shows the Set Time menu:



```
SET TIME
HH MM
11 : 25
ENTER          CANCEL
```

3. Press the left and right arrow buttons to select hours or minutes, which flash when selected.

Press the up and down arrow buttons to increase or decrease the value.

Press **Enter** to accept the time setting and return to the Settings menu.

Note You cannot use the number buttons to enter hours or minutes.

To set the date, press the down arrow button once so that the arrow points to Set Date, then press **Enter**.

```
SET DATE
DD MM YY
15/11/13
ENTER      CANCEL
```

Press the left and right arrow buttons to select day, month or which flash when selected.

Press the up and down arrow buttons to increase or decrease the value.

Press **Enter** to accept the time setting and return to the Settings menu.

Note You cannot use the number buttons to enter dates.

Press **Cancel** or **Menu** to return to the Main Menu, or press **Home** to return to the Home display.

6.6 Read Status of Unit

1. Go to the Commands menu and select Read Status: Menu > Commands > Enter > Read Status > Enter.

```
UNIT STATUS
Enter Unit Address
ENTER  --  CANCEL
```

Use the right and left arrow buttons to move between the zone (left-hand) and unit (right-hand) numbers. The current number flashes.

Use the number buttons to enter a zone from 1 to 15 and a unit from 0 to 31.

```
UNIT STATUS
Enter Unit Address
01-08
ENTER  CANCEL
```

Press **Enter** to view the unit status.


```
UNIT STATUS 01-08
Signal      h h h h h
            h h h h h
Battery     h h h h h h h h
            h h h h h h h h
Lithium Cell 19%C
```

The display shows the zone, unit, signal strength, battery level, battery type and internal temperature.

Press **Back/Cancel** to return to the previous display. Select and view more units in the same way if required.

This function may also be operated from **Network Status**.

```
SITE: 0 UNITS: 13
▶Zone 01 (8)
Zone 02 (5)
ENTER          CANCEL ↓
```

Enter the required zone and use the arrows to scroll the menu and select the unit.

7 BATTERY REPLACEMENT

Follow this procedure to change the Cygnus battery packs. This will reset the internal fuel gauge of the module.

Note: If you do not follow this procedure, recurring battery faults will display on the Control Panel.

1. Open the front of the alarm case.
2. Remove the 9-pin connector from the PCB (Figure 7-1).



Figure 7-1: Remove the 9-pin Connector



Figure 7-2: Battery Reset Connector

3. Fit the Battery Reset Connector (Figure 7-2) onto the PCB (Figure 7-3).



Figure 7-3: Battery reset connector fitted

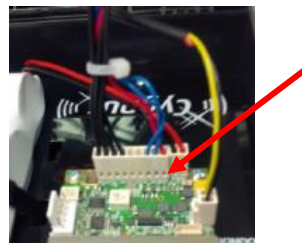


Figure 7-4: Replace the 9-pin Connector

4. Fit the new battery pack. The alarm sounder bleeps once and a Battery OK message is received by the Control Panel.
5. Replace the 9-pin connector (Figure 7-4) and close the alarm case.

8 CYGI INTERFACE UNIT

The CYGI Interface Unit allows you to connect the Cygnus system to external control devices or other alarm systems.

The Unit consists of a standard Cygnus Radio Module and Power Supply to which an output relay board is connected.

The alarm input pins on the radio may be set up using the Cygnus software to suit individual site requirements. The relay board may be set with an output delay from the radio sounder settings.

8.1 Specification

Output rated at: Double pole change over contacts volt free (dry) 8A at 240Vac.

Alarm Input: Switch closing to 0V, set to latching/non latching.

Aux. Input: Switch closing to 0V, operates unit out only, displays tamper alarm on panel.

8.2 Diagram

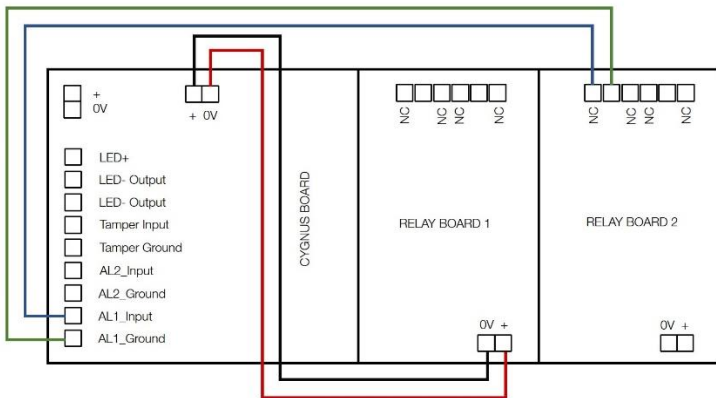


Figure 8-1: CYGI Interface Unit

