



AAW Control Systems Limited

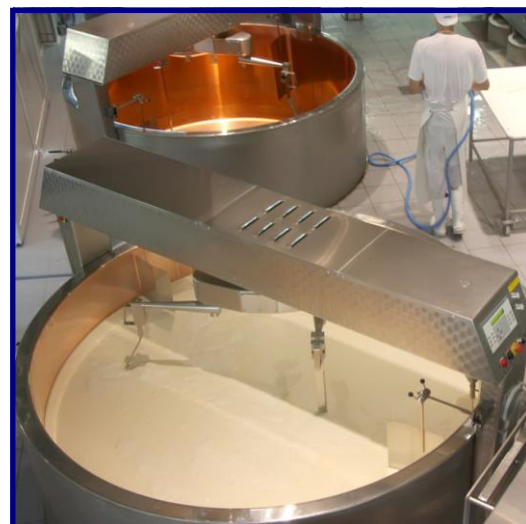
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RIOT-S

User Manual for version 1.68



AAW Control Systems Limited

User Manual: RIOT-S version 1.68

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Introduction to the RIOT-S

Overview

The RIOT-S is the newest development within AAW's range of monitoring and alarm systems. It provides a flexible and cost-effective solution that enables you to monitor temperatures and other variables; receive alarm alerts; and print out data and alarm/event logs.

The RIOT-S also provides the foundation for AAW's internet-hosted WebREACT and WebREACT Lite systems. These provide additional end-user functionality and reporting and enable the system to be monitored remotely via any device with an internet connection such as a PC, tablet or smartphone.

Touchscreen

All of the functions on the RIOT-S are performed via its integrated touchscreen.

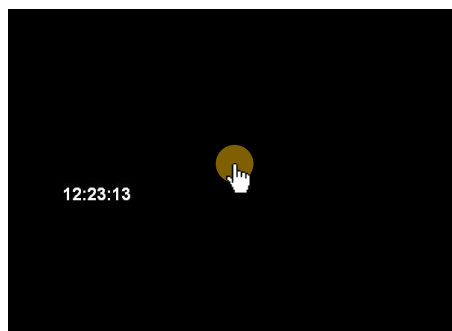
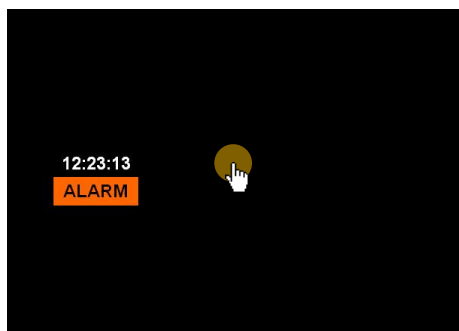
Important: To avoid damaging the touchscreen, you should only use the soft-tipped stylus that is provided with the unit or alternatively your finger tip. You should avoid using hard items such as pens, keys, fingernails etc.

Screen saver

When not being actively used, the RIOT-S will display a screen saver. This consists of the current time moving slowly around the screen.

Note: If any point is in alarm, then the word "ALARM" will also be shown with a flashing orange background.

Press anywhere on screen to "wake up" the RIOT-S and display the 'Home' screen.



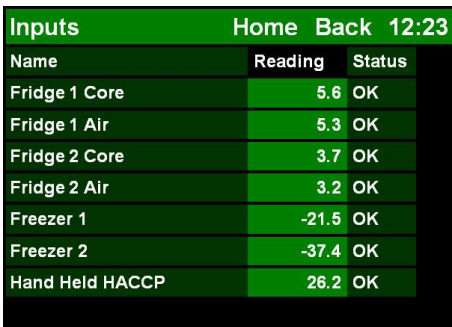
The 'Home' Screen

Introduction

The 'Home' screen lists the various points (inputs) that are being monitored by the RIOT-S and shows the current reading and status for each one.

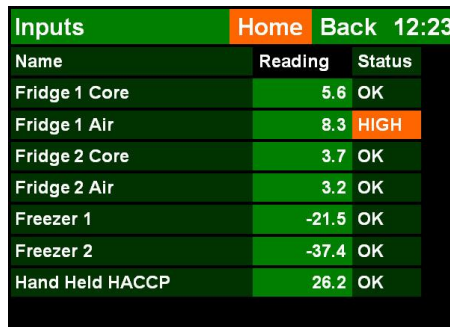
If any input goes into alarm, then the 'Home' button will flash orange and so will the status of each input that's in alarm. The status will describe the type of alarm.

Note: Once an alarm has been acknowledged the 'Home' button will have a solid (non-flashing) orange background and so will the status of the input. This will continue until the alarm condition has cleared – for example, until the temperature has returned to being within the allowed limits.



Inputs	Home	Back	12:23
Name	Reading	Status	
Fridge 1 Core	5.6	OK	
Fridge 1 Air	5.3	OK	
Fridge 2 Core	3.7	OK	
Fridge 2 Air	3.2	OK	
Freezer 1	-21.5	OK	
Freezer 2	-37.4	OK	
Hand Held HACCP	26.2	OK	

All inputs OK



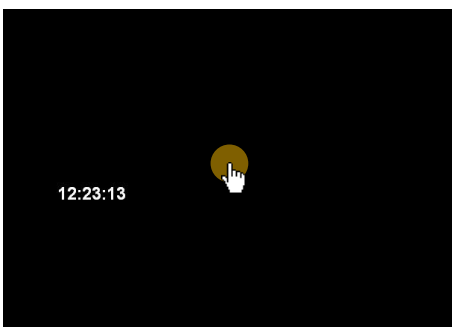
Inputs	Home	Back	12:23
Name	Reading	Status	
Fridge 1 Core	5.6	OK	
Fridge 1 Air	8.3	HIGH	
Fridge 2 Core	3.7	OK	
Fridge 2 Air	3.2	OK	
Freezer 1	-21.5	OK	
Freezer 2	-37.4	OK	
Hand Held HACCP	26.2	OK	

Fridge 1 Air in high alarm

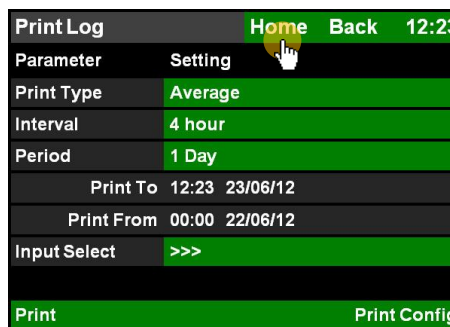
Displaying the 'Home' screen

The 'Home' screen is displayed whenever the RIOT-S is turned on or "woken up" from its screen saver.

Alternatively, if another screen is currently on display, then you can go to the 'Home' screen by pressing the 'Home' button at the top of the screen.



Press the screen to display the 'Home' screen



Print Log	Home	Back	12:23
Parameter	Setting		
Print Type	Average		
Interval	4 hour		
Period	1 Day		
Print To	12:23 23/06/12		
Print From	00:00 22/06/12		
Input Select	>>>		
Print	Print Config		

Press the 'Home' button to go to the 'Home' screen

Functions from the 'Home' screen

From the 'Home' screen you can do the following:

1. Print data logs and the status/config summary by pressing the 'Inputs' button (requires a thermal mini printer).
2. Access the configuration settings for an input by pressing its name.
3. Re-order the list of inputs - so that any inputs that are in alarm are brought to the top, by pressing the 'Home' button.
4. View a graph of the readings recorded for an input by pressing on its current reading.
5. View the alarm/event list for an input by pressing its status – also used for printing the alarm/event log and for acknowledging alarms.
6. View the alarm/event list for all inputs by pressing the 'Status' heading - also used for printing the alarm/event log and for acknowledging alarms.
7. Access the 'Setup' menu by pressing the time in the top right corner.

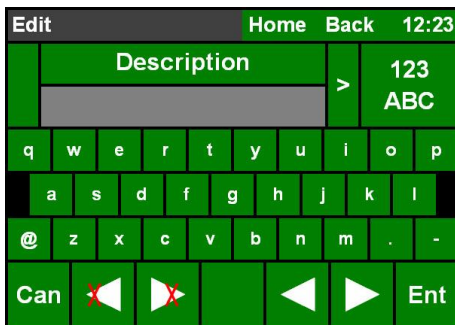
Name	Reading	Status
Fridge 1 Core	5.6	OK
Fridge 1 Air	4	OK
Fridge 2 Core	3.7	05
Fridge 2 Air	3.2	OK
Freezer 1	-21.5	OK
Freezer 2	-37.4	OK
Hand Held HACCP	26.2	OK

Using the Touchscreen Keyboard

Introduction

A number of functions on the RIOT-S will require you to use the system's integrated touchscreen keyboard.

Lower case keyboard

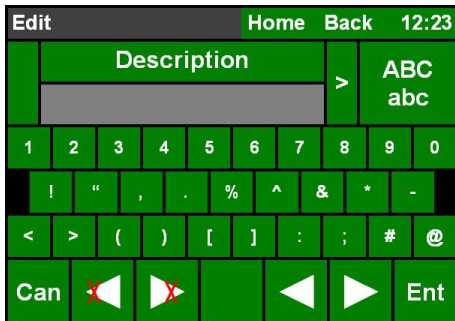


Press a letter to insert it as lower case letter.

Press and hold on a letter to insert it as upper case.

Press the '123/ABC' button to display the numerals keyboard.

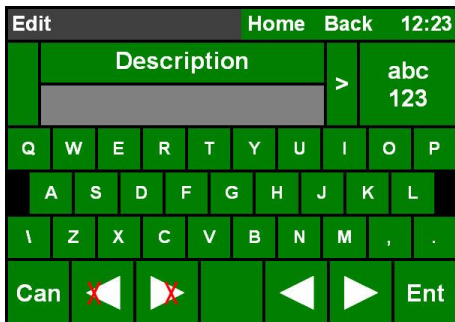
Numerals keyboard



Press a number/symbol to insert it.

Press the 'ABC/abc' button to display the upper case keyboard.

Upper case keyboard



Press a letter to insert it as upper case letter.

Press and hold on a letter to insert it as lower case.

Press the 'abc/123' button to display the lower case keyboard.

Function buttons

As well as the usual letters, numbers and symbols, the keyboard also provides the following function buttons:



Go back to the previous field - useful when working on screens that have several fields that can be edited.

Note: Any changes will be saved before going to the previous field.



Go to the next field - useful when working on screens that have several fields that can be edited.

Note: Any changes will be saved before going to the next field.



Display the numerals keyboard



Display the upper case keyboard



Display the lower case keyboard



Cancel any changes



Delete backwards



Delete forwards



Scroll backwards



Scroll forwards



Save any changes

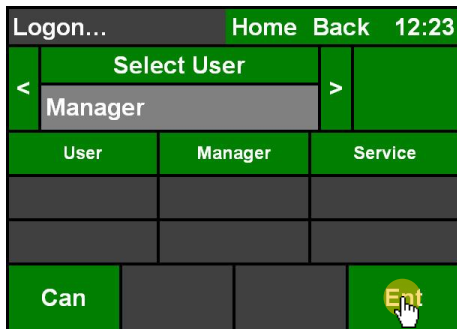
Logging On

Introduction

If you try to perform a function that requires you to log on, then you will automatically be prompted to do so.

Instructions

1. When prompted, select the user that you want to log on as then press the 'Ent' button.



The 'Passcode' screen will be displayed.

2. Enter the passcode for the user you selected, then press the 'Ent' button.

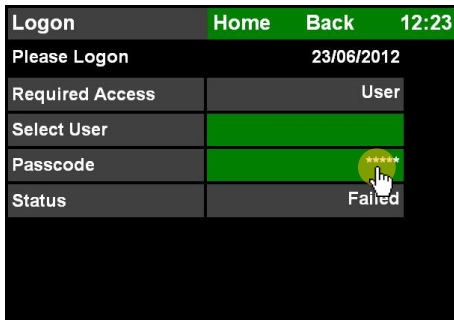


You will be returned to your original screen so that you can complete the function that you needed to log on for.

Failed logon (wrong passcode)

If the user's passcode is entered incorrectly, then a failed 'Logon' screen will be displayed with the word "Failed" in the status.

Press the passcode setting (*****) to re-enter it, or alternatively press the blank 'Select User' setting to re-select the user.

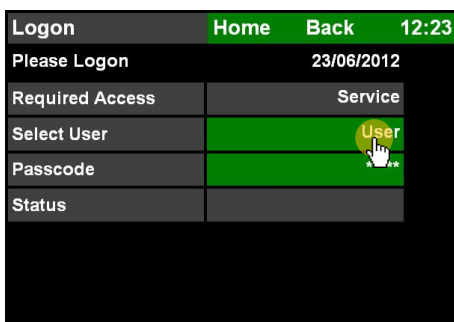


You will then be prompted to enter your user code/select a user as before.

Failed logon (insufficient access level)

If the selected user does not have the required access level for the function that is being performed, then a failed 'Logon' screen will again be displayed. This will show the required access level.

Press the current user name to select a different user.



You will then be prompted to select the required user and then enter the passcode for that user as before.

Logging Off

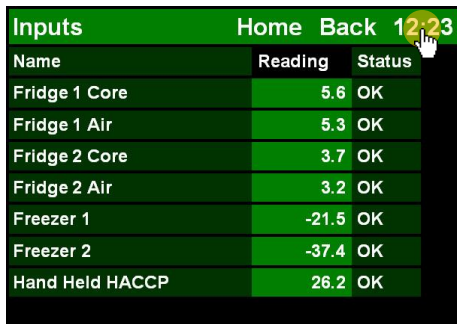
Introduction

Once you have finished using the RIOT-S you should log off to prevent anyone else using the system under your logon. This is particularly important if you have logged on as a user with “manager” or “service” access level.

Note: After 3 minutes of not being used the RIOT-S will automatically log off the current user and display the screen saver.

Instructions

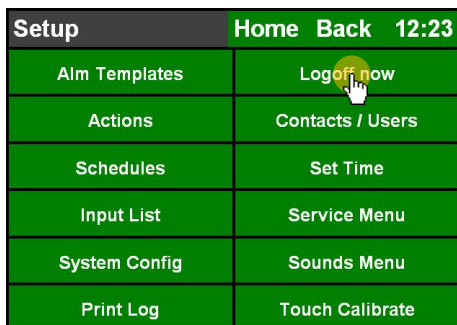
1. Go to the ‘Setup’ menu by pressing the time in the top right corner of the screen.



Name	Reading	Status
Fridge 1 Core	5.6	OK
Fridge 1 Air	5.3	OK
Fridge 2 Core	3.7	OK
Fridge 2 Air	3.2	OK
Freezer 1	-21.5	OK
Freezer 2	-37.4	OK
Hand Held HACCP	26.2	OK

The ‘Setup’ menu will be displayed.

2. Press the ‘Logoff now’ button.



Setup	Home Back 12:23
Alm Templates	Logoff now
Actions	Contacts / Users
Schedules	Set Time
Input List	Service Menu
System Config	Sounds Menu
Print Log	Touch Calibrate

The current user will be logged off and the ‘Home’ screen will be displayed.

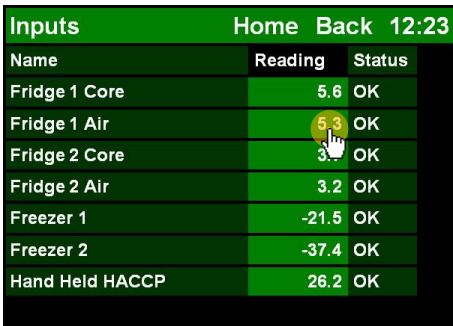
Viewing the Graph for an Input

Introduction

Viewing the graph for an input enables you to see how the readings for that input have changed over time, and to see the value that was recorded at any point in the past.

Displaying the graph for an input

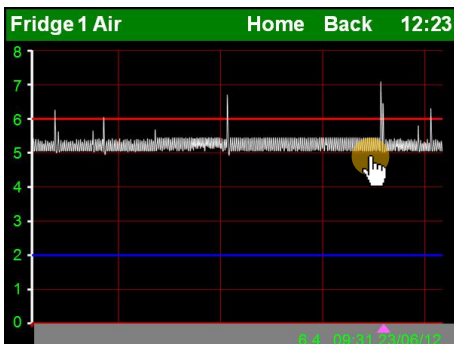
From the 'Home' screen, press the current reading for a point to view its graph.



Name	Reading	Status
Fridge 1 Core	5.6	OK
Fridge 1 Air	5.3	OK
Fridge 2 Core	3.0	OK
Fridge 2 Air	3.2	OK
Freezer 1	-21.5	OK
Freezer 2	-37.4	OK
Hand Held HACCP	26.2	OK

Seeing the exact reading at a particular time

To see the exact reading at a particular time, press the graph at that time.



The value of the reading recorded at the selected time will be displayed below the x axis.

Note: You may need to zoom in on the graph to be able to accurately select the exact time you require.

Additional features and functions of the input graphs

1. The readings for the selected input are graphed as a white line.
2. The high limit for the input is indicated by a horizontal red line.
3. The low limit for the input is indicated by a horizontal blue line.
4. The times of the first and last readings shown by the graph are labelled on the x axis.

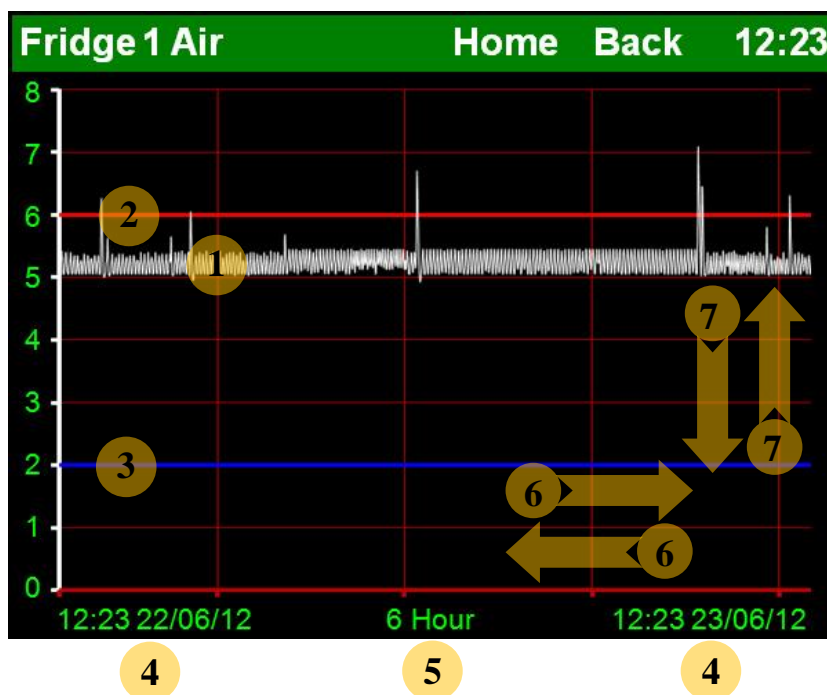
Tip: You can press on the time/date at either end of the x axis to scroll forward/backwards.

5. The period between the vertical gridlines is shown underneath the x axis.

Note: By default the graph will show a period of 1 day (24 hours) with vertical gridlines every 6 hours at 06:00, 12:00, 18:00 and 00:00.

Tip: You can press on the period underneath the x axis to zoom out.

6. To scroll backwards swipe left to right; to scroll forwards swipe right to left.
7. To zoom in swipe vertically up; to zoom out swipe vertically down.



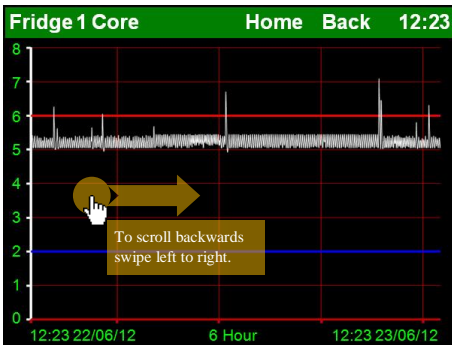
Scrolling forwards and backwards on the graph

To scroll backwards or forwards to see an earlier or later time/date, swipe your finger horizontally across the graph.

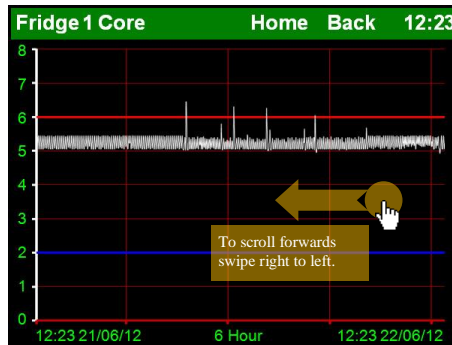
To scroll backwards swipe left to the right



To scroll forwards swipe right to left

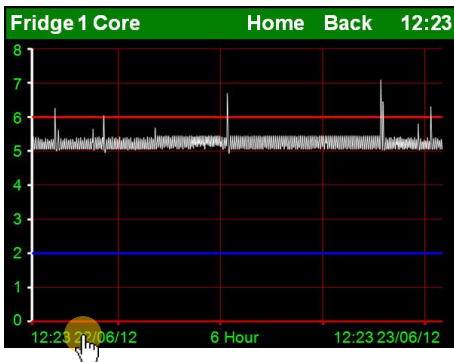


To scroll backwards, swipe left to right

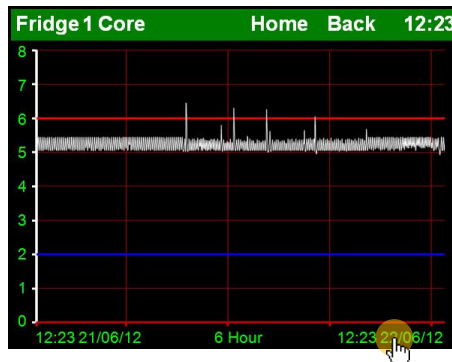


To scroll forwards, swipe right to left

You can also scroll backwards or forwards by pressing the time/date shown at either end of the x axis.



To scroll backwards, press the time/date on the far left.



To scroll forwards, press the time/date on the far right.

Zooming in and out on the graph

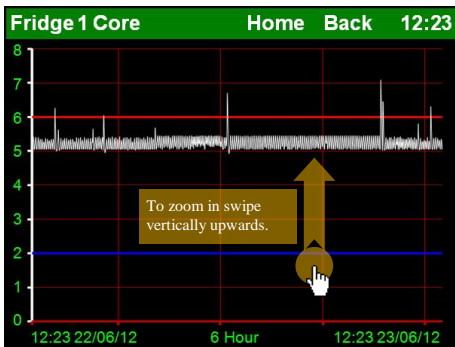
To zoom in/out on the graph, swipe your finger vertically up/down at the point you want to zoom in/out on.

Think: “Up is in, down is out”

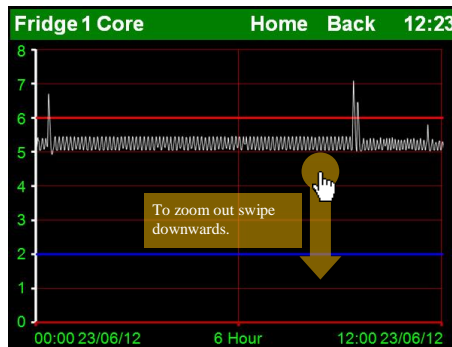
Swipe up
to zoom in



Swipe down
to zoom out

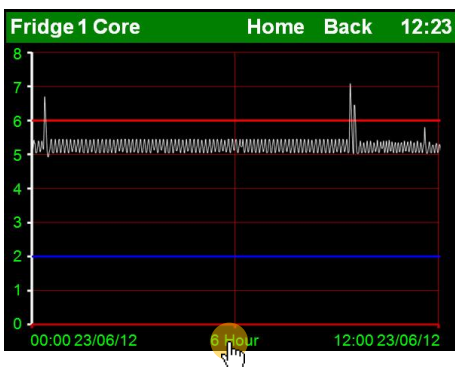


To zoom in, swipe vertically up



To zoom out, swipe vertically down

You can also zoom out by pressing the interval shown in the middle of the x axis.



To zoom out, press the interval shown in the middle of the x axis

The zoom out will be centred on the middle of the screen.

Note: The total period that is shown by the graph and the frequency of the vertical gridlines will change automatically as you zoom in/out.

Time period shown by the graph

The total period that is shown by the graph and the frequency of the vertical gridlines will change automatically as you zoom in/out, as shown in the table below.

Note: By default the graph will show a period of 1 day (24 hours) with vertical gridlines every 6 hours at 06:00, 12:00, 18:00 and 00:00.

	Total period shown on screen	Interval between vertical gridlines
Zoom out ↑↑↑↑	32 days	Week
	16 days	Week
	8 days	Day
	4 days	Day
	2 days	6 Hour
	1 day	6 Hour
Zoom in ↓↓↓↓	12 hours	6 Hour
	6 hours	Hour
	3 hours	Hour
	1.5 hours	15 Min
	45 minutes	15 Min

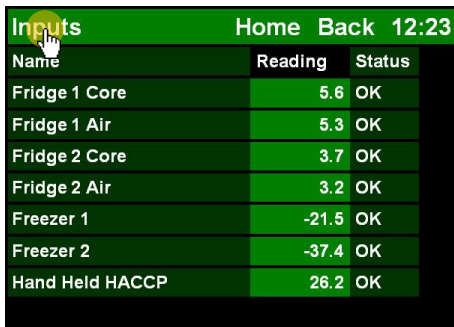
Printing the Data Log

Introduction

The data log shows a summary of the values recorded for the selected inputs during the selected time period.

Instructions

1. From the 'Home' screen, press the 'Inputs' heading at the top of the screen.

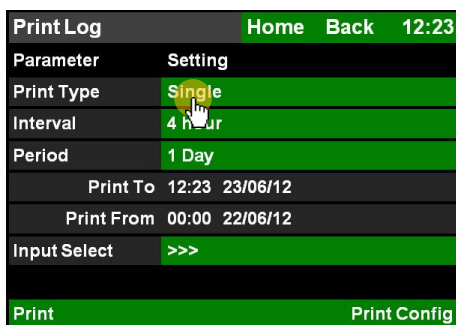


Name	Reading	Status
Fridge 1 Core	5.6	OK
Fridge 1 Air	5.3	OK
Fridge 2 Core	3.7	OK
Fridge 2 Air	3.2	OK
Freezer 1	-21.5	OK
Freezer 2	-37.4	OK
Hand Held HACCP	26.2	OK

The 'Print Log' parameters screen will be displayed showing the current print settings.

Note: The RIOT-S retains the print settings from its last printout. Therefore if you always need the same printout then you shouldn't need to adjust any of the print settings.

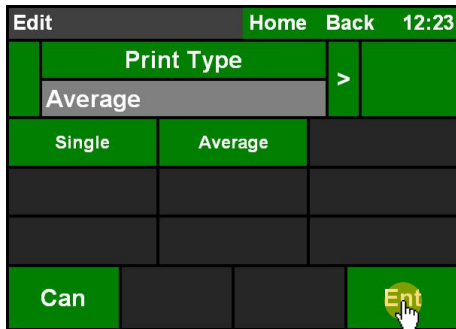
2. If required, press the current setting for a parameter you want to change e.g. 'Print Type' - see overleaf for a full list/description of these parameters.





Parameter	Setting
Print Type	Single
Interval	4 Hour
Period	1 Day
Print To	12:23 23/06/12
Print From	00:00 22/06/12
Input Select	>>>
Print	Print Config

The corresponding 'Edit' screen will be displayed.

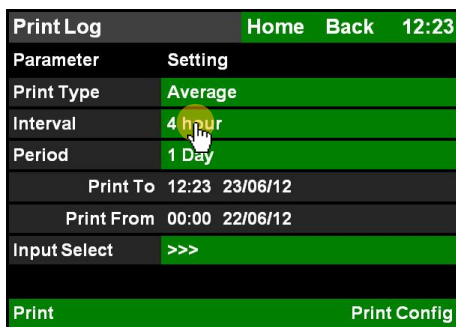
3. Make the required changes to the setting, then press 'Ent' to save.



You will be returned to the 'Print Log' screen. This should show the new setting you have just selected.

Tip: If you need to change several settings, then use the  and  buttons on the 'Edit' screen to move quickly through the parameters rather than pressing 'Ent' and going back to the main 'Print Log' screen each time. Any changes you make will be saved as you move from one parameter to the next.

4. Change the settings for any of the other parameters in the same way – see overleaf for a full list/description of these parameters.

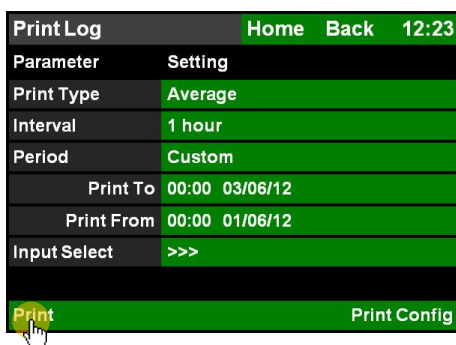


The corresponding 'Edit' screen will be displayed.

Note: When selecting inputs ('Input Select'), press an input to select/de-select it as required, then press 'Finish' to save your selection and return to the 'Print Log' screen.

A red background indicates that an input is selected

5. Press the 'Print' button at the bottom of the screen.



The data log will be printed out according to the specified parameters.

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'Print Log' Parameters

Parameter	Description	Setting options
Print Type	Defines whether the data log will show the average reading for each interval or a single (snapshot) reading for each interval.	<ul style="list-style-type: none">● Single● Average
Interval	Defines the frequency at which readings will be printed, with each value either being an average reading for the interval or a single (snapshot) reading for the interval depending on the print type.	<ul style="list-style-type: none">● 20 Min● 1 Hour● 2 Hour● 4 Hour● 8 Hour● 24 Hour
Period	Defines the time/date range that the readings will be printed for.	<ul style="list-style-type: none">● Custom● 2 Weeks● Last Week● 3 Day● 1 Day● 8 Hour
Print To	Defines the end of the time/date range that the data log will be printed for. Note: Only available for editing if "Custom" is selected for the period.	Time and Date (hh:mm dd/mm/yy)
Print From	Defines the start of the time/date range that the data log will be printed for. Note: Only available for editing if "Custom" is selected for the period.	Time and Date (hh:mm dd/mm/yy)
Input Select	Defines which inputs are included on the data log.	List of inputs - press an input to select/de-select it. Note: A red background indicates that an input is selected.

Understanding the Data Log

Introduction

The data log shows a summary of the values recorded for the selected inputs during the selected time period.

The diagram illustrates the structure of a data log table. The table is enclosed in a box and contains the following information:

- Site Name:** AAW Control Systems
- Data Type:** Single
- Time and Date:** 12:23 23/06/2012
- Input Name:** Fridge
- Month and Year:** Jun 2012
- Data Grid:** A table with columns for day (dd), hour (hh), and time offsets (+0 to +5). The values represent temperature readings in degrees Celsius.

Callouts explain the following elements:

- The site name:** Points to "AAW Control Systems".
- The type of data requested (Single or Average):** Points to "Single".
- The name of the input that the data is for:** Points to "Fridge".
- The day of the month:** Points to "2" in the "dd" column of the first row.
- The hour of the day:** Points to "06" in the "hh" column of the first row.
- The time and date when the data log was printed:** Points to "12:23 23/06/2012".
- The month and year that the data is for:** Points to "Jun 2012".
- The value recorded for the input at the given time on the given day of the month* – in this example 4.2°C at 17:00 on 1 Jun 2012.** Points to the value "4.2" in the +5 column of the row for day 1, hour 12.

* The day of the month that each value relates to is shown in the dd column on the far left of the row.

The time of day that each value relates to is worked out from the hour of the day (as shown in the hh column on the left of the row), plus the number of hours shown in the heading of the column that the value is in.

For example, if the hour of the day for the row is 18, then the value shown in the +5 column of that row would relate to a time of 23:00, worked out from $18 + 5 = 23$.

Viewing the Alarm/Event List

Introduction

The alarm/event list enables you to see a brief history of the alarms/events that have occurred in relation to the various inputs that are being monitored.

Instructions





- From the 'Home' screen, press the 'Status' heading at the top of the list of input statuses.

Inputs	Home	Back	12:23
Name	Reading	Status	
Fridge 1 Core	5.6	OK	
Fridge 1 Air	5.3	OK	
Fridge 2 Core	3.7	OK	
Fridge 2 Air	3.2	OK	
Freezer 1	-21.5	OK	
Freezer 2	-37.4	OK	
Hand Held HACCP	26.2	OK	

The 'Alarm/Event' list will be displayed for all inputs and all dates.

Note: If you only want to view the alarm/event list for a single input, then press the status of that particular input. This will automatically filter the alarm/event list accordingly.

The alarms/events are colour coded as follows:

Colour	Description
	Alarm triggered e.g. due to a temperature being outside the allowed limits for longer than the allowed delay period. Freezer Alm A:High
	Alarm cleared e.g. due to the temperature returning to the allowed limits Freezer Alm A:Clr H
	Alarm acknowledged Freezer :Ack, User:Manager
	Configuration changed e.g. alarm limit changed Set:Alm Tmpl 5, User:Service

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- Press the 'Up' and 'Down' buttons at the bottom of the screen to scroll up and down the list as required.

All Alarms		Home	Back	12:23
Time/Date	Alarm/Event			
10:50 13/06/12	Fridge Alm A:Clr			
10:43 13/06/12	Fridge :Ack, User:Manager			
10:42 13/06/12	Fridge Alm A:High			
15:23 02/06/12	Fridge Alm A:Clr			
15:15 02/06/12	Fridge :Ack, User:Manager			
15:12 02/06/12	Fridge Alm A:High			
11:34 02/06/12	Freezer Alm A:Clr			
06:11 02/06/12	Freezer :Ack, User:Manager			
		Print	Up	Down

- If required, press on an individual alarm/event to view it in more detail.

The 'Alarm/Event' list will be filtered so that it just shows the alarms/events for the particular input.

Note: When the 'Alarm/Event' list is shown for a single input, some of the events are shown with additional information. In particular any alarms are shown with the high/low limit of the input and the value that was recorded when the input went outside that limit and into alarm.

All Alarms		Home	Back	12:23
Time/Date	Alarm/Event			
10:50 13/06/12	Fridge Alm A:Clr			
10:43 13/06/12	Fridge :Ack, User:Manager			
10:42 13/06/12	Fridge Alm A:High			
15:23 02/06/12	Fridge Alm A:Clr			
15:15 02/06/12	Fridge :Ack, User:Manager			
15:12 02/06/12	Fridge Alm A:High			
11:34 02/06/12	Freezer Alm A:Clr			
06:11 02/06/12	Freezer :Ack, User:Manager			
		Print	Up	Down

Alarm/event list for all inputs...

Press an individual event to view additional detail

Fridge		Home	Back	12:23
Time/Date	Alarm/Event			
12:13 23/06/13	Alm A:Clr			
10:43 13/06/12	:Ack, User:Manager			
10:42 13/06/12	Alm A:High=6.0, Value=6.5			
15:23 02/06/12	Alm A:Clr			
15:15 02/06/12	:Ack, User:Manager			
15:12 02/06/12	Alm A:High=6.0, Value=6.9			
07:04 01/06/12	Alm A:Clr			
07:00 01/06/12	:Ack, User:Manager			
		Print	Up	Down

Alarm/event list for a single input...

Alarms are shown with the high/low limit and the value that triggered the alarm.

Printing the Alarm/Event Log

Introduction

The alarm/event log shows the date, time and a brief description of the alarms/events that occurred in relation to the selected inputs within the selected time period.

Instructions

1. From the 'Home' screen, press the 'Status' heading at the top of the list of input statuses.



Inputs			Home	Back	12:23
Name	Reading	Status			
Fridge 1 Core	5.6	OK			
Fridge 1 Air	5.3	OK			
Fridge 2 Core	3.7	OK			
Fridge 2 Air	3.2	OK			
Freezer 1	-21.5	OK			
Freezer 2	-37.4	OK			
Hand Held HACCP	26.2	OK			

The alarm/event list will be displayed for all inputs and all dates.

Note: If you only want to print the alarm/event log for a single input, then press the status of that particular input. This will automatically filter the alarm/event list accordingly.

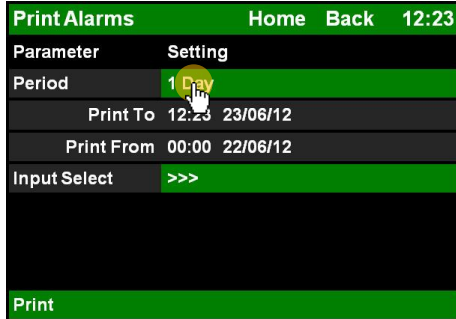
2. Press the 'Print' button at the bottom of the screen



All Alarms			Home	Back	12:23
Time/Date	Alarm/Event				
10:50 13/06/12	Fridge Alm A:Clr				
10:43 13/06/12	Fridge :Ack, User:Manager				
10:42 13/06/12	Fridge Alm A:High				
15:23 02/06/12	Fridge Alm A:Clr				
15:15 02/06/12	Fridge :Ack, User:Manager				
15:12 02/06/12	Fridge Alm A:High				
11:34 02/06/12	Freezer Alm A:Clr				
06:11 02/06/12	Freezer :Ack, User:Manager				
	Print	Up	Down		

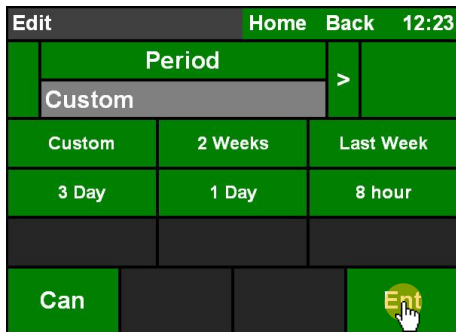
The 'Print Alarms' parameters screen will be displayed showing the current print settings.

3. If required, press the current setting for a parameter you want to change e.g. 'Period' – see overleaf for a full list/description of these parameters.





The corresponding 'Edit' screen will be displayed.

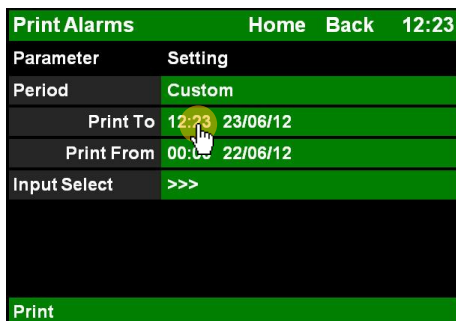
4. Make the required changes to the setting, then press 'Ent' to save.



You will be returned to the 'Print Log' parameters screen. This should show the updated setting.

Tip: If you need to change several settings, then use the  and  buttons on the 'Edit' screen to move quickly through the parameters rather than pressing 'Ent' and going back to the main 'Print Log' screen each time. Any changes you make will be saved as you move from one parameter to the next.

5. Change the settings for any of the other parameters in the same way – see overleaf for a full list/description of these parameters.

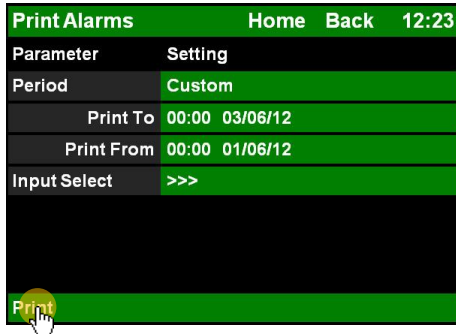


The corresponding 'Edit' screen will be displayed.

Note: When selecting inputs (Input Select), press an input to select/de-select it as required, then press 'Finish' to save your selection and return to the 'Print Alarms' screen.

A red background indicates that an input is selected

6. Press the 'Print' button at the bottom of the screen.



The alarm/event log will be printed out according to the specified parameters.

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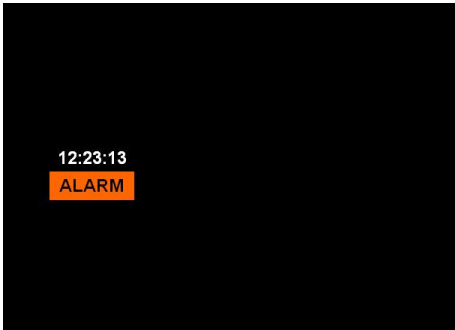
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‘Print Alarms’ Parameters

Parameter	Description	Setting options
Period	Defines the time/date range that the alarms/events will be printed for.	<ul style="list-style-type: none">● Custom● Last Week● 1 Day● 2 Weeks● 3 Day● 8 Hour
Print To	Defines the end of the time/date range that the alarm/event log will be printed for. Note: Only available for editing if “Custom” is selected for the period.	Time and Date (hh:mm dd/mm/yy)
Print From	Defines the start of the time/date range that the alarm/event log will be printed for. Note: Only available for editing if “Custom” is selected for the period.	Time and Date (hh:mm dd/mm/yy)
Input Select	Defines which inputs are included on the alarm/event log.	List of inputs - press an input to select/de-select it. Note: A red background indicates that an input is selected.

Recognising that there's an Alarm

Overview



When an alarm is triggered on the RIOT-S there will usually be an audible alarm (siren) issued by the unit itself. There may also be additional alerts via telephone/text/email depending on the set-up of the unit.

If you go to the RIOT-S it will typically be showing its screen saver which consists of the current time moving slowly around the screen. If any input is in alarm then the word “ALARM” will also be shown with a flashing orange background.

Inputs	Home	Back	12:23
Name	Reading	Status	
Fridge 1 Core	5.6	OK	
Fridge 1 Air	8.3	High	
Fridge 2 Core	3.7	OK	
Fridge 2 Air	3.2	OK	
Freezer 1	-21.5	OK	
Freezer 2	-37.4	OK	
HACCP	26.2	OK	

Pressing anywhere on the screen will “wake up” the RIOT-S and display the ‘Home’ screen. When there is an alarm, the ‘Home’ button will flash orange and so will the status of each input that’s in alarm. The status will describe the type of alarm as per the table below.

Note: If an alarm condition clears before it has been acknowledged, then the status of the input will flash red rather than orange. It will still need to be acknowledged

Input Statuses

Status	Description
OK	The current reading is within the input’s high/low limits.
High	The current reading is above the input’s high limit.
Low	The current reading is below the input’s low limit.
Flt	Communication has been lost with the expansion board or remote (wireless) sensor that corresponds to the input.
Clr H	The reading for the input has returned to normal after being above the input’s high limit, but the high alarm has not yet been acknowledged.
Clr L	The reading for the input has returned to normal after being below the input’s low limit, but the low alarm has not yet been acknowledged.
Clr F	Communication has been restored with the expansion board or remote (wireless) sensor that corresponds to the input, but the alarm has not yet been acknowledged.
INH	The input’s alarms are inhibited.

Acknowledging an Alarm

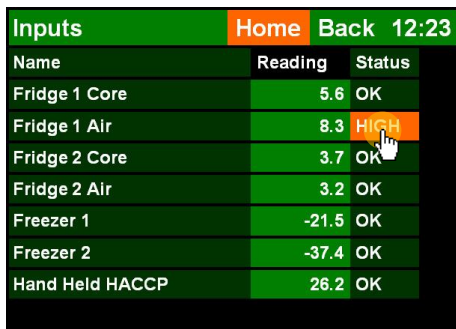
Introduction

Once an alarm has been triggered on the RIOT-S it needs to be acknowledged. This will turn off any sirens etc. although the unit will continue to indicate that there is an alarm condition until that condition has cleared – for example, until the temperature has returned to normal.

Important: As well as acknowledging the alarm, you should also take action to investigate/resolve whatever caused it. This will be necessary to make sure that the alarm condition clears and does not subsequently re-occur.

Instructions

1. From the 'Home' screen, press the status of the input that's in alarm.



Inputs	Home	Back	12:23
Name	Reading	Status	
Fridge 1 Core	5.6	OK	
Fridge 1 Air	8.3	HIGH	
Fridge 2 Core	3.7	OK	
Fridge 2 Air	3.2	OK	
Freezer 1	-21.5	OK	
Freezer 2	-37.4	OK	
Hand Held HACCP	26.2	OK	

The 'Alarm/Event' list for the selected input will be displayed.

Note: If there are more than 8 inputs on your RIOT-S, then you should press the 'Home' button to bring all the inputs that are in alarm to the top of the list. This will help to make sure that you don't overlook any alarms.

Tip: If there are multiple inputs in alarm and you want to acknowledge them all together, then press the 'Status' heading at the top of the list of statuses. This will display the 'Alarm/Event' list for all inputs.

2. Press the 'Acknowledge' button at the bottom of the screen.



Fridge 1 Air	Home	Back	12:23
Time/Date	Alarm/Event		
12:13 23/06/13	Alm A:High=8.0, Value=8.3		
10:50 13/06/13	Alm A:Clr		
10:43 13/06/13	:Ack, User:Manager		
10:42 13/06/13	Alm A:High=8.0, Value=8.5		
15:23 02/06/13	Alm A:Clr		
15:15 02/06/13	:Ack, User:Manager		
15:09 02/06/13	Alm A:High=8.0, Value=8.2		
07:04 11/05/13	Alm A:Clr		
Acknowledge	Print	Up	Down

If you are not already logged on as a user then you will be prompted to do so. All access levels can acknowledge alarms.

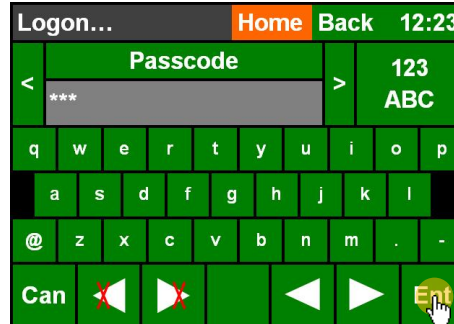
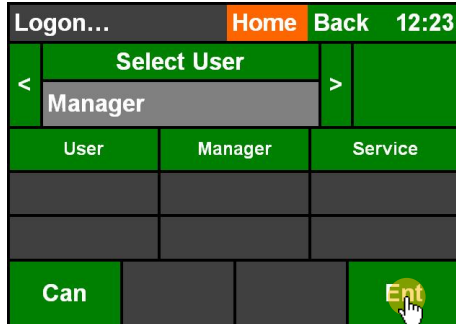
If you are already logged on as a user, then the alarm(s) will be acknowledged immediately and you will be returned to the 'Home' screen.

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- If prompted, log on by selecting the required user and pressing 'Ent', then entering the selected user's passcode and pressing 'Ent' again.

Note: All access levels can acknowledge alarms.



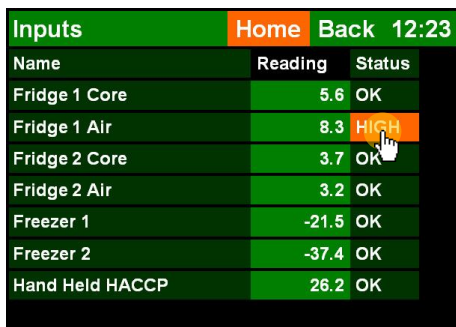
- Press the 'Acknowledge' button again.



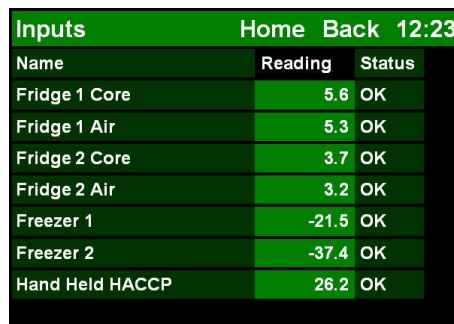
The alarm(s) will be acknowledged and you will be returned to the 'Home' screen.

The input's status will stop flashing but will continue to be highlighted orange until the alarm condition has cleared.

- Check that the alarm condition clears and the status returns to "OK".



Once an alarm has been acknowledged, the input's status will stop flashing but will continue to be highlighted orange until the alarm condition has cleared – for example, until the temperature has returned to normal.



Receiving and Acknowledging Alarms via Phone

Introduction

When an alarm is triggered on a RIOT-S or RIOT-SD Autodialler there will usually be an audible alert (siren) issued by the unit, and there may also be additional alerts via telephone/text/email depending on how the system has been set up.

Note: The RIOT-S or RIOT-SD may be working as a standalone unit, or it may be part of a WebREACT or WebREACT Lite monitoring system.

Instructions

1. If an alarm is triggered that has a telephone dial-out action, then the nominated users will be alerted with a voice message in the following format:

[Site Name]... [Input Sound]... [Alarm Sound]

For example: AAW Control Systems... Fridge 1 Air... high temperature alarm

Note: The actual voice message that you hear will depend on the sounds that have been recorded within the setup of the RIOT-S/RIOT-SD.

2. To acknowledge the alarm dial:

225#

This will acknowledge the alarm for the input that the voice message was made for.

The voice message should change to an acknowledgement message.

Note: It is currently only possible to dial 225# to acknowledge the alarm if the dial-out is made via a PSTN Interface. It is not possible if the dialout is made via a GSM Interface.

Note: If more than one alarm is triggered with a telephone dial-out action, then a separate voice message will be received for each one and each one will need to be acknowledged in turn.

Receiving and Acknowledging Alarms via Text

Introduction

When an alarm is triggered on the RIOT-S there will usually be an audible alarm (siren) issued by the unit itself. There may also be additional alerts via telephone/text/email depending on the setup of the alarms for that input.

Instructions

1. If an alarm is triggered that has a text message action, then the nominated users will be alerted with a text message in the following format:

[hh:mm dd/mm/yyyy] [Alarm type]([Limit]) Value([Value])

[Unit name] ->[Input name] ->[Alarm number]

For example: 12:23 23/06/2012 High Alarm(8.0) Value(8.3)
AAW Control Systems ->Fridge 1 Air ->AlarmA

2. To acknowledge the alarm reply with:

ACK

Note: This will acknowledge all alarms on the RIOT-S, not just the alarm for the input that the original alarm text was sent for.

Note: If more than one alarm is triggered with a text message action, then a separate text message will be sent for each one.

All the alarms will, however, be acknowledged via a single reply.

Receiving Alarms via Email

Introduction

When an alarm is triggered on the RIOT-S there will usually be an audible alarm (siren) issued by the unit itself. There may also be additional alerts via telephone/text/email depending on the setup of the alarms for that input.

Instructions

1. If an alarm is triggered that has an email message action, then the nominated users will be alerted with an email message in the following format:

From: AAW RIOT-S

Subject: ALARM from RIOT-S

Message:
[hh:mm dd/mm/yyyy] [Alarm type]([Limit]) Value([Value])
[Unit name] ->[Input name] ->[Alarm number]

For example: 12:23 23/06/2012 High Alarm(8.0) Value(8.3)
AAW Control Systems ->Fridge 1 Air ->AlarmA

2. It is not currently possible to acknowledge an alarm via email.

Note: If more than one alarm is triggered with an email message action, then a separate email message will be sent for each one.

Calibrating the Touchscreen

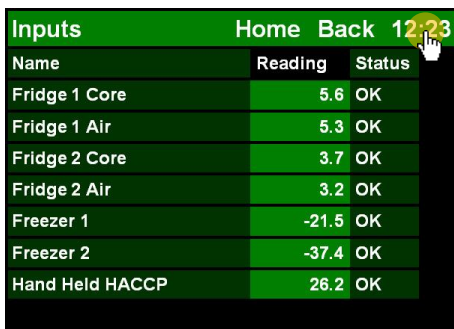
Introduction

From time to time it may be necessary to re-calibrate the RIOT-S touchscreen.

Tip: If the touchscreen is so far out of calibration that you cannot access the 'Calibration' screen through the 'Setup' menu, then you can also access it by pressing/holding on the screen continuously for a period that is more than 20 seconds but less than 30 seconds e.g. by pressing and holding for 23 seconds.

Instructions

1. Press the time in the top right corner of the screen.

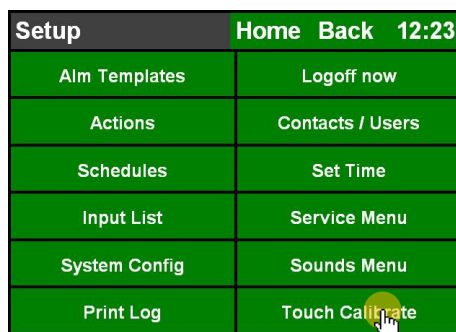


Inputs	Home	Back	12:23
Name	Reading	Status	
Fridge 1 Core	5.6	OK	
Fridge 1 Air	5.3	OK	
Fridge 2 Core	3.7	OK	
Fridge 2 Air	3.2	OK	
Freezer 1	-21.5	OK	
Freezer 2	-37.4	OK	
Hand Held HACCP	26.2	OK	

The 'Setup' menu will be displayed.

Note: If you are not already logged on as a user then you will be prompted to do so. All access levels are able to re-calibrate the touchscreen.

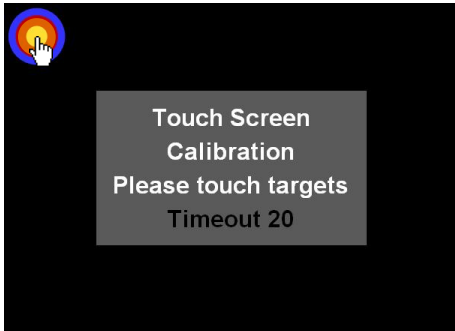
2. Press the 'Touch Calibrate' button.



Setup	Home	Back	12:23
Alm Templates	Logoff now		
Actions	Contacts / Users		
Schedules	Set Time		
Input List	Service Menu		
System Config	Sounds Menu		
Print Log	Touch Calibrate		

The 'Calibration' screen will be displayed.

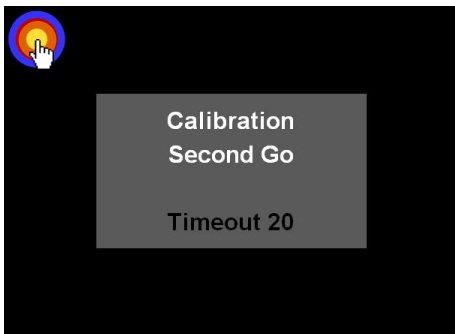
3. Press in the middle of each target.



After pressing the target, a new target will be displayed in a different corner of the screen.

Note: If you initiated the calibration by mistake, or don't want to complete it for any reason, then the calibration will timeout automatically after 20 seconds if the screen isn't touched.

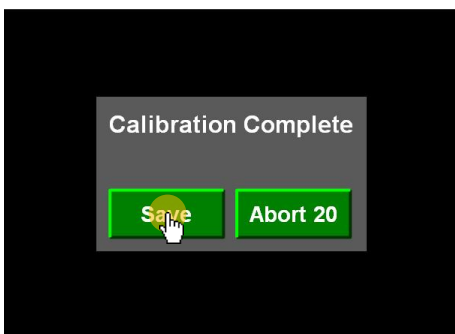
4. Press in the middle of each target again.



After pressing the target, a new target will be displayed in a different corner of the screen.

The calibration involves 4 targets – one in each corner of the screen, with each target being pressed twice.

5. Press the 'Save' button to complete the calibration.



You will be returned to the 'Setup' menu.

Tip: If the touchscreen is so far out of calibration that you cannot access the 'Calibration' screen through the 'Setup' menu, then you can also access it by pressing/holding on the screen continuously for a period that is more than 20 seconds but less than 30 seconds e.g. by pressing and holding for 23 seconds.

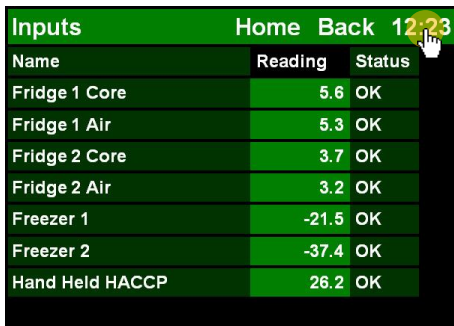
Re-starting the Unit

Introduction

From time to time it may be necessary to re-start a RIOT-S – for example if it has lost connection with the network.

Instructions

1. Press the time in the top right corner of the screen.

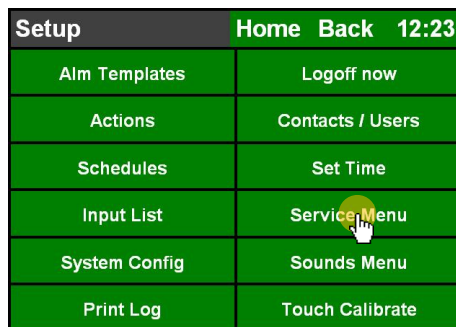


Inputs			Home	Back	12:23
Name	Reading	Status			
Fridge 1 Core	5.6	OK			
Fridge 1 Air	5.3	OK			
Fridge 2 Core	3.7	OK			
Fridge 2 Air	3.2	OK			
Freezer 1	-21.5	OK			
Freezer 2	-37.4	OK			
Hand Held HACCP	26.2	OK			

The 'Setup' menu will be displayed.

Note: If you are not already logged on as a user then you will be prompted to do so. To re-start the RIOT-S you will need to log on as a user with a "service" access level.

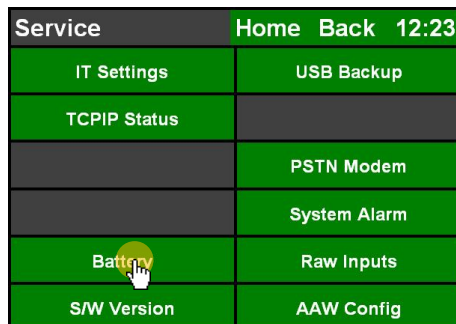
2. Press the 'Service Menu' button.



Setup		Home	Back	12:23
Alm Templates	Logoff now			
Actions	Contacts / Users			
Schedules	Set Time			
Input List	Service Menu			
System Config	Sounds Menu			
Print Log	Touch Calibrate			

The 'Service' menu will be displayed.

3. Press the 'Battery' button.




Service		Home	Back	12:23
IT Settings	USB Backup			
TCPIP Status				
	PSTN Modem			
	System Alarm			
Battery	Raw Inputs			
S/W Version	AAW Config			

The 'Battery' parameters screen will be displayed.

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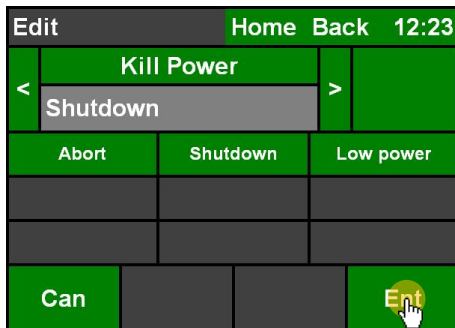
4. Press the setting for the 'Kill Power' parameter.



Battery			Home	Back	12:23
Parameter	Setting	Units			
Supply	Present				
Vbat	5.2	V			
Charge Time	00:00	Off			
Kill Power					
Run On Time	00:00	sec			
Touch On Time	00:00	sec			

An 'Edit' screen will be displayed showing the different 'Kill Power' options.

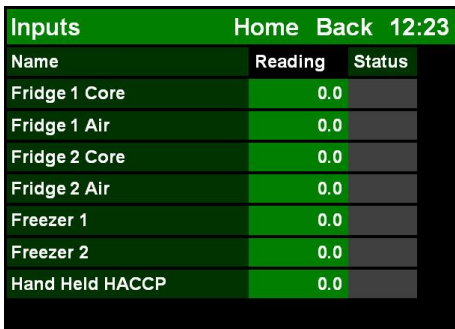
5. Press the 'Shutdown' option, and then press 'Ent'.



Edit			Home	Back	12:23
Kill Power			<	>	
Shutdown					
Abort	Shutdown	Low power			
Can				Ent	

The RIOT-S will be turned off.

6. Wait for the RIOT-S to turn itself back on.



Inputs			Home	Back	12:23
Name	Reading	Status			
Fridge 1 Core	0.0				
Fridge 1 Air	0.0				
Fridge 2 Core	0.0				
Fridge 2 Air	0.0				
Freezer 1	0.0				
Freezer 2	0.0				
Hand Held HACCP	0.0				

Provided that the RIOT-S has mains power, it will turn itself back on after 5 – 10 seconds and display the 'Home' screen.

If the RIOT-S does not have mains power, then it will turn itself back on when it is next connected to mains power.



Inputs			Home	Back	12:23
Name	Reading	Status			
Fridge 1 Core	5.6	OK			
Fridge 1 Air	5.3	OK			
Fridge 2 Core	3.7	OK			
Fridge 2 Air	3.2	OK			
Freezer 1	-21.5	OK			
Freezer 2	-37.4	OK			
Hand Held HACCP	26.2	OK			

Note: After the RIOT-S has turned itself back on it may take several minutes for all the readings and statuses to be updated/shown.

Changing the Date and Time

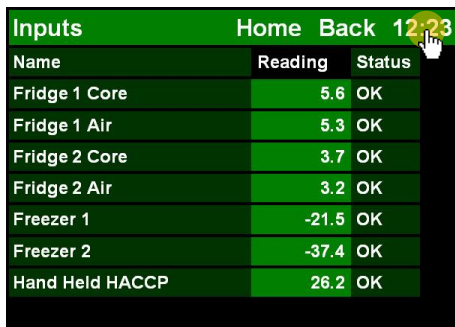
Introduction

It is essential that the date and time on your RIOT-S are correct, otherwise the data it records will not be accurately time-stamped.

Note: Your RIOT-S should be supplied with the correct date and time, but it is important that you check it to make sure.

Instructions

1. From the 'Home' screen, press the time in the top right corner.

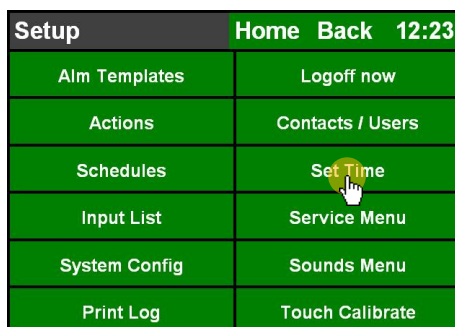


Name	Reading	Status
Fridge 1 Core	5.6	OK
Fridge 1 Air	5.3	OK
Fridge 2 Core	3.7	OK
Fridge 2 Air	3.2	OK
Freezer 1	-21.5	OK
Freezer 2	-37.4	OK
Hand Held HACCP	26.2	OK

The 'Setup' menu will be displayed.

Note: If you are not already logged on as a user then you will be prompted to do so. To change the date and time parameters you will need to log on as a user with a "manager" or "service" access level.

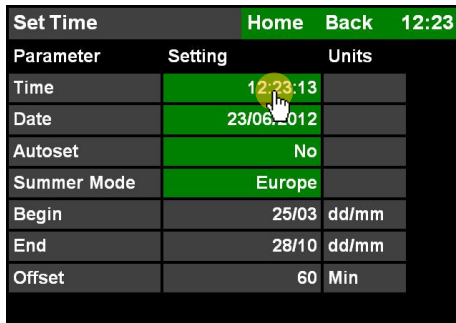
2. Press the 'Set Time' button.



Setup	Home Back 12:23
Alm Templates	Logoff now
Actions	Contacts / Users
Schedules	Set Time
Input List	Service Menu
System Config	Sounds Menu
Print Log	Touch Calibrate

The 'Set Time' parameters screen will be displayed.

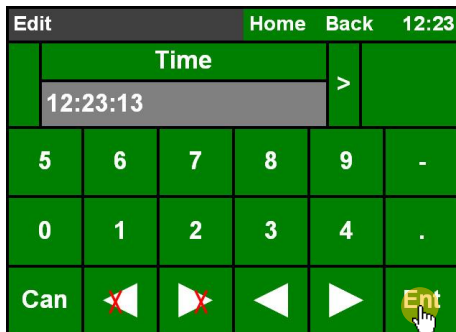
3. Press the current setting for the parameter that you want to change e.g. 'Time'.



Parameter	Setting	Units
Time	12:23:13	
Date	23/06/2012	
Autoset	No	
Summer Mode	Europe	
Begin	25/03	dd/mm
End	28/10	dd/mm
Offset	60	Min



An 'Edit' screen will be displayed showing the current setting for the selected parameter.

4. Make the required changes to the setting, then press 'Ent' to save.

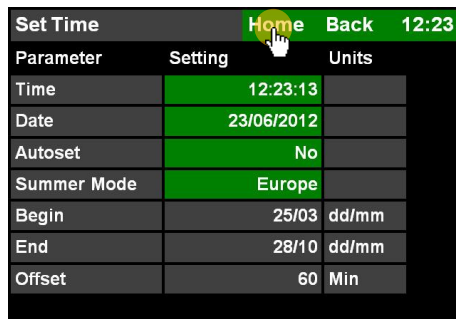


Time					
12:23:13					
5	6	7	8	9	-
0	1	2	3	4	.
Can	<	>	<	>	Ent

You will be returned to the 'Set Time' parameters screen. This should show the updated setting.

Tip: If you need to edit several parameters, then use the  and  buttons on the 'Edit' screen to move quickly through the settings rather than pressing 'Ent' and going back to the main parameters screen each time. Any changes you make will be saved as you move from one setting to the next.

5. When you have finished changing the date and time, press the 'Home' button to return to the 'Home' screen.



Parameter	Setting	Units
Time	12:23:13	
Date	23/06/2012	
Autoset	No	
Summer Mode	Europe	
Begin	25/03	dd/mm
End	28/10	dd/mm
Offset	60	Min

Changing the Name of an Input

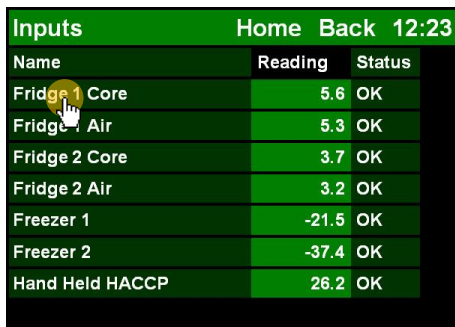
Introduction

To enhance the usability of the RIOT-S, it is important that the input names are correct i.e. that they match the units/areas being monitored. If the names of those units/areas change for any reason, then the names of the corresponding inputs on the RIOT-S should also be updated accordingly.

Note: Your RIOT-S will normally be supplied with the correct input names already set up.

Instructions

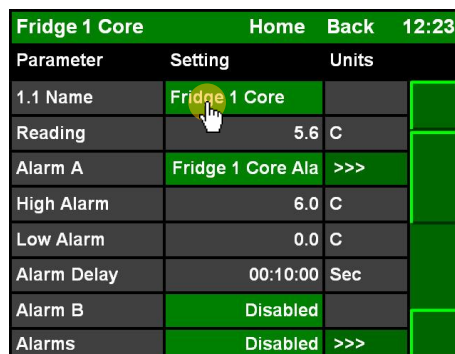
1. From the 'Home' screen, press the name of the input that you want to change, e.g. 'Fridge 1 Core'.



Inputs			Home	Back	12:23
Name	Reading	Status			
Fridge 1 Core	5.6	OK			
Fridge 1 Air	5.3	OK			
Fridge 2 Core	3.7	OK			
Fridge 2 Air	3.2	OK			
Freezer 1	-21.5	OK			
Freezer 2	-37.4	OK			
Hand Held HACCP	26.2	OK			

The parameters screen for the selected input will be displayed.

2. Press the current setting for the name.



Fridge 1 Core			Home	Back	12:23
Parameter	Setting	Units			
1.1 Name	Fridge 1 Core				
Reading	5.6	C			
Alarm A	Fridge 1 Core Ala	>>>			
High Alarm	6.0	C			
Low Alarm	0.0	C			
Alarm Delay	00:10:00	Sec			
Alarm B	Disabled				
Alarms	Disabled	>>>			

An 'Edit' screen will be displayed showing the current name.

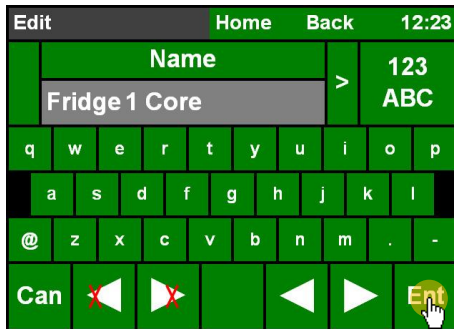
Note: If you are not already logged on as a user then you will be prompted to do so. To change input names you will need to log on as a user with a "manager" or "service" access level.

After logging on you will need to press the current name again to access the 'Edit' screen.

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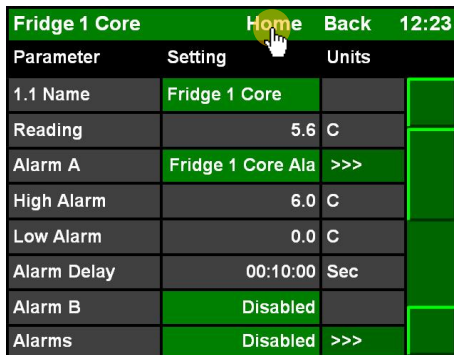
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3. Make the required changes to the name, then press 'Ent' to save.

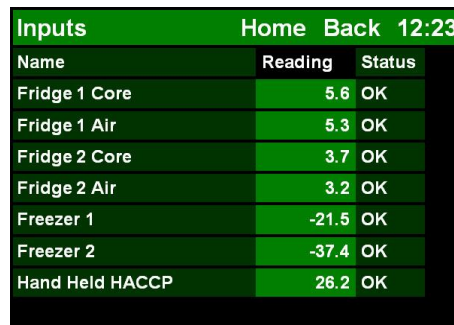


You will be returned to the parameters screen for the selected input. This should show the updated name.

4. Press the 'Home' button to return to the home screen.



You will be returned to the 'Home' screen. This should show the updated name.



Name	Reading	Status
Fridge 1 Core	5.6	OK
Fridge 1 Air	5.3	OK
Fridge 2 Core	3.7	OK
Fridge 2 Air	3.2	OK
Freezer 1	-21.5	OK
Freezer 2	-37.4	OK
Hand Held HACCP	26.2	OK

Adding a New Contact/User

Introduction

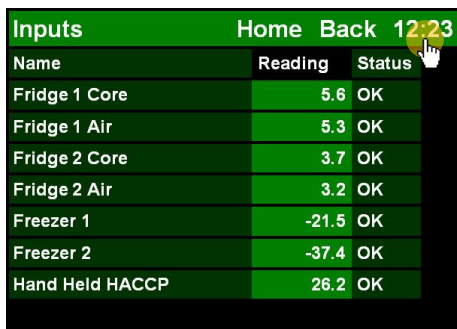
The RIOT-S and RIOT-SD Autodialler come with the following contacts/users by default. You may, however, want to set up additional contacts specific to your site. This is particularly necessary if you want to send alarm alerts via text, email or telephone.

User	Password	Access Level
User	use	User
Manager	man	Manager
Service	ser	Service

Note: Passcodes are case-sensitive.

Instructions

1. Press the time in the top right corner of the screen.

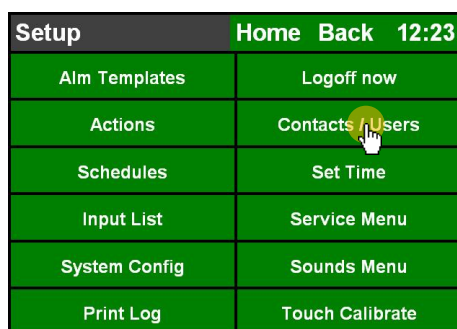


Name	Reading	Status
Fridge 1 Core	5.6	OK
Fridge 1 Air	5.3	OK
Fridge 2 Core	3.7	OK
Fridge 2 Air	3.2	OK
Freezer 1	-21.5	OK
Freezer 2	-37.4	OK
Hand Held HACCP	26.2	OK

The 'Setup' menu will be displayed.

Note: If you are not already logged on as a user then you will be prompted to do so. To add a new user you will need to log on as a user with a "manager" or "service" access level.

2. Press the 'Contacts/Users' button.



Setup	Home Back 12:23
Alm Templates	Logoff now
Actions	Contacts / Users
Schedules	Set Time
Input List	Service Menu
System Config	Sounds Menu
Print Log	Touch Calibrate

A list of the current contacts/users will be displayed.

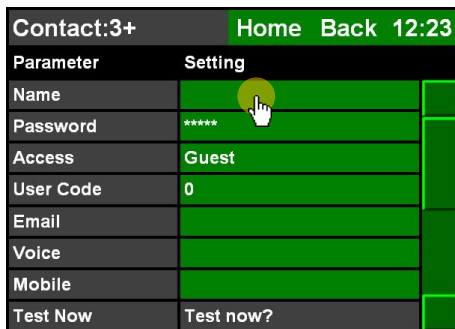
Note: The default contacts/users ("User", "Manager" and "Service") will already be set up as users 14, 15 and 16 respectively.

3. To add a new contact/user, press one of the blank name fields.



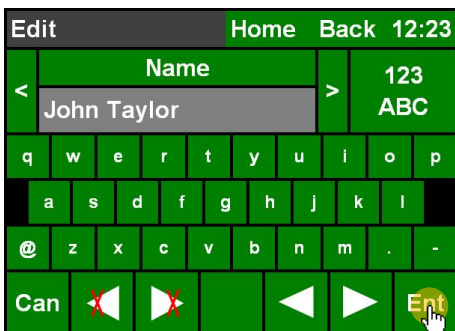
The parameters screen for the selected contact will be displayed.

4. Press the setting for the parameter that you want to enter/change e.g. 'Name' - see overleaf for a full list/description of these parameters..





An 'Edit' screen will be displayed showing the current setting for the selected parameter.

5. Make the required changes to the setting, then press 'Ent' to save.



You will be returned to the parameters screen. This should show the updated setting.

Note: If you do not want to save the changes you have made, then press the 'Can' button to cancel.

Tip: If you need to change several parameters, then use the  and  buttons on the 'Edit' screen to move quickly through the settings rather than pressing 'Ent' and going back to the main parameters screen each time. Any changes you make will be saved as you move from one setting to the next.

6. Enter/change the settings for the other parameters in the same way - see overleaf for a full list/description of these parameters.

Note: If you want to the system to send out alarm alerts via email/telephone/text, then you must set up an email address/voice number/mobile number on the contacts that you want those alerts sent to.

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7. When you have finished entering/changing the contact's parameters, press the 'Back' button to return to the list of contacts.

Contact:3+		Home Back 12:23
Parameter	Setting	
Name	John Taylor	
Password	*****	
Access	Manager	
User Code	241	
Email	john.taylor@aaaw.co.uk	
Voice	01635248589	
Mobile	07780480123	
Test Now	Test now?	

The list of contacts should show the new contact that you've added.

Contacts		Home Back 12:23
No.	Name	
1	Jane Smith	
2	William Jones	
3	John Taylor	
4		
5		
6		
7		
8		

IMPORTANT: If you want a contact to receive alerts in the event of an alarm, then you need to add that contact as an action to the relevant alarm template(s).

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Contact Parameters

Parameter	Description
Name	The user's name.
Password	The password that the user will need to use when logging on. Note: Passwords are case-sensitive.
Access	Controls the functions that the user can perform on the RIOT-S.
User Code	Used to identify the user within WebREACT or WebREACT Lite. Can be specified manually or left as "0" whereby it will be automatically assigned a number in the range 239 to 254.
Email	The email address that alarm alerts via email will be sent to.
Voice	The voice number that alarm alerts via telephone will be made to. Note: If you want voice alerts to go to a mobile phone, then the number of that mobile phone needs to be entered as the contact's 'Voice' number, not their 'Mobile' number. The 'Mobile' is the number that will be used for text alerts.
Mobile	The mobile number that alarm alerts via text will be sent to. Note: If you want voice alerts to go to a mobile phone, then the number of that mobile phone needs to be entered as the contact's 'Voice' number, not their 'Mobile' number. The 'Mobile' is the number that will be used for text alerts.
Test Now	Enables you to send a test alarm alert via email, phone or text – the subsequent screen will allow you to choose which particular alarm alert you want to test.
Type	Assigned automatically by the system. Will usually show "Normal" unless the contact is set up as a remote relay, in which case it should show "Relay".

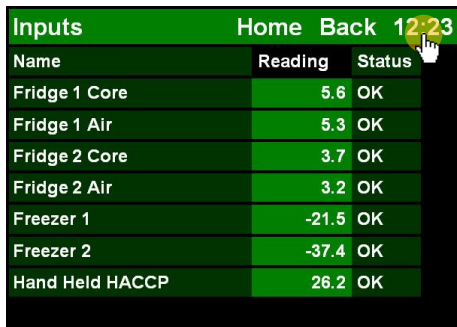
Modifying a Contact/User

Introduction

From time to time you may need to modify the details of the contacts/users that have been set up on your RIOT-S – for example if their email address or telephone number has changed.

Instructions

1. Press the time in the top right corner of the screen.

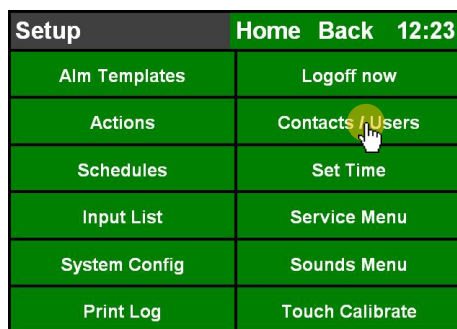


Name	Reading	Status
Fridge 1 Core	5.6	OK
Fridge 1 Air	5.3	OK
Fridge 2 Core	3.7	OK
Fridge 2 Air	3.2	OK
Freezer 1	-21.5	OK
Freezer 2	-37.4	OK
Hand Held HACCP	26.2	OK

The 'Setup' menu will be displayed.

Note: If you are not already logged on as a user then you will be prompted to do so. To modify a contact/user you will need to log on as a user with a “manager” or “service” access level.

2. Press the 'Contacts/Users' button.



Setup	Home Back 12:23
Alm Templates	Logoff now
Actions	Contacts / Users
Schedules	Set Time
Input List	Service Menu
System Config	Sounds Menu
Print Log	Touch Calibrate

A list of the current 'Contacts/Users' will be displayed.

Note: The default 'Contacts/Users' ('user', 'manager' and 'service') will be set up as users 14, 15 and 16 respectively.

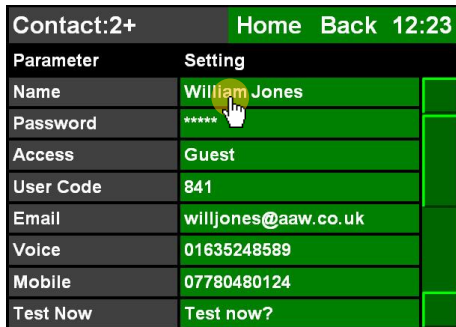
3. Press the name of the contact you want to modify.



No.	Name
1	Jane Smith
2	William Jones
3	John Taylor
4	
5	
6	
7	
8	

The parameters screen for the selected contact will be displayed.

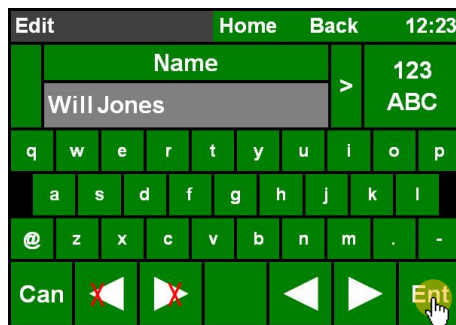
4. Press the setting for the parameter that you want to modify e.g. 'Name' - see overleaf for a full list/description of these parameters.



Parameter	Setting
Name	William Jones
Password	*****
Access	Guest
User Code	841
Email	willjones@aaw.co.uk
Voice	01635248589
Mobile	07780480124
Test Now	Test now?



An 'Edit' screen will be displayed showing the current setting for the selected parameter.

5. Make the required changes to the setting, then press 'Ent' to save.



You will be returned to the parameters screen. This should show the updated setting.

Note: If you do not want to save the changes you have made, then press the 'Can' button to cancel.

Tip: If you need to edit several parameters, then use the  and  buttons on the 'Edit' screen to move quickly through the settings rather than pressing 'Ent' and going back to the main parameters screen each time. Any changes you make will be saved as you move from one setting to the next.

6. Modify the settings for the other parameters in the same way - see overleaf for a full list/description of these parameters.

Note: If you want the system to send out alarm alerts via email/telephone/text, then you must set up an email address/voice number/mobile number on the contacts that you want those alerts sent to.

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7. When you have finished modifying the contact's parameters, press the 'Back' button to return to the list of contacts.

Contact:2+		Home	Back	12:23
Parameter	Setting			
Name	Will Jones			
Password	*****			
Access	Guest			
User Code	841			
Email	willjones@aaw.co.uk			
Voice	01635248589			
Mobile	07780480124			
Test Now	Test now?			

The list of contacts should show the modified contact.

Contacts		Home	Back	12:23
No.	Name			
1	Jane Smith			
2	Will Jones			
3	John Taylor			
4				
5				
6				
7				
8				

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Contact Parameters

Parameter	Description
Name	The user's name.
Password	The password that the user will need to use when logging on. Note: Passwords are case-sensitive.
Access	Controls the functions that the user can perform on the RIOT-S.
User Code	Used to identify the user within WebREACT or WebREACT Lite. Can be specified manually or left as "0" whereby it will be automatically assigned a number in the range 239 to 254.
Email	The email address that alarm alerts via email will be sent to.
Voice	The voice number that alarm alerts via telephone will be made to. Note: If you want voice alerts to go to a mobile phone, then the number of that mobile phone needs to be entered as the contact's 'Voice' number, not their 'Mobile' number. The 'Mobile' is the number that will be used for text alerts.
Mobile	The mobile number that alarm alerts via text will be sent to. Note: If you want voice alerts to go to a mobile phone, then the number of that mobile phone needs to be entered as the contact's 'Voice' number, not their 'Mobile' number. The 'Mobile' is the number that will be used for text alerts.
Test Now	Enables you to send a test alarm alert via email, phone or text – the subsequent screen will allow you to choose which particular alarm alert you want to test.
Type	Assigned automatically by the system. Will usually show "Normal" unless the contact is set up as a remote relay, in which case it should show "Relay".

Overview of Alarm Configuration

Introduction

The configuration of alarms on a RIOT-S or RIOT-SD Autodialler involves a number of different elements as shown in the schematic overleaf:

To amend the individual elements, go to the 'Setup' menu (by pressing the time in the top right corner of the screen) and then select the required option.

Tip: Alarm templates and actions can be accessed/amended from the input's parameters screen without having to go through the 'Setup' menu.

Changing the alarm configuration

1. If you want to change the limits or delay for when an alarm will be triggered, then you need to amend the corresponding settings on the alarm template.
2. If you want to change the times/days when the alarm as a whole is active, then you need to amend the schedule that's attached to the alarm template.
3. If you want to change the times/days when a particular action is active e.g. when a particular contact will be phoned, then you need to amend the schedule that's assigned to that action.
4. If you want to change the people who will be alerted in the event of an alarm, then you need to amend the contacts who are added to the action.
5. If you want to change the contact details e.g. email address or phone number, of the people who will be alerted in the event of an alarm, then you need to amend the corresponding contacts.

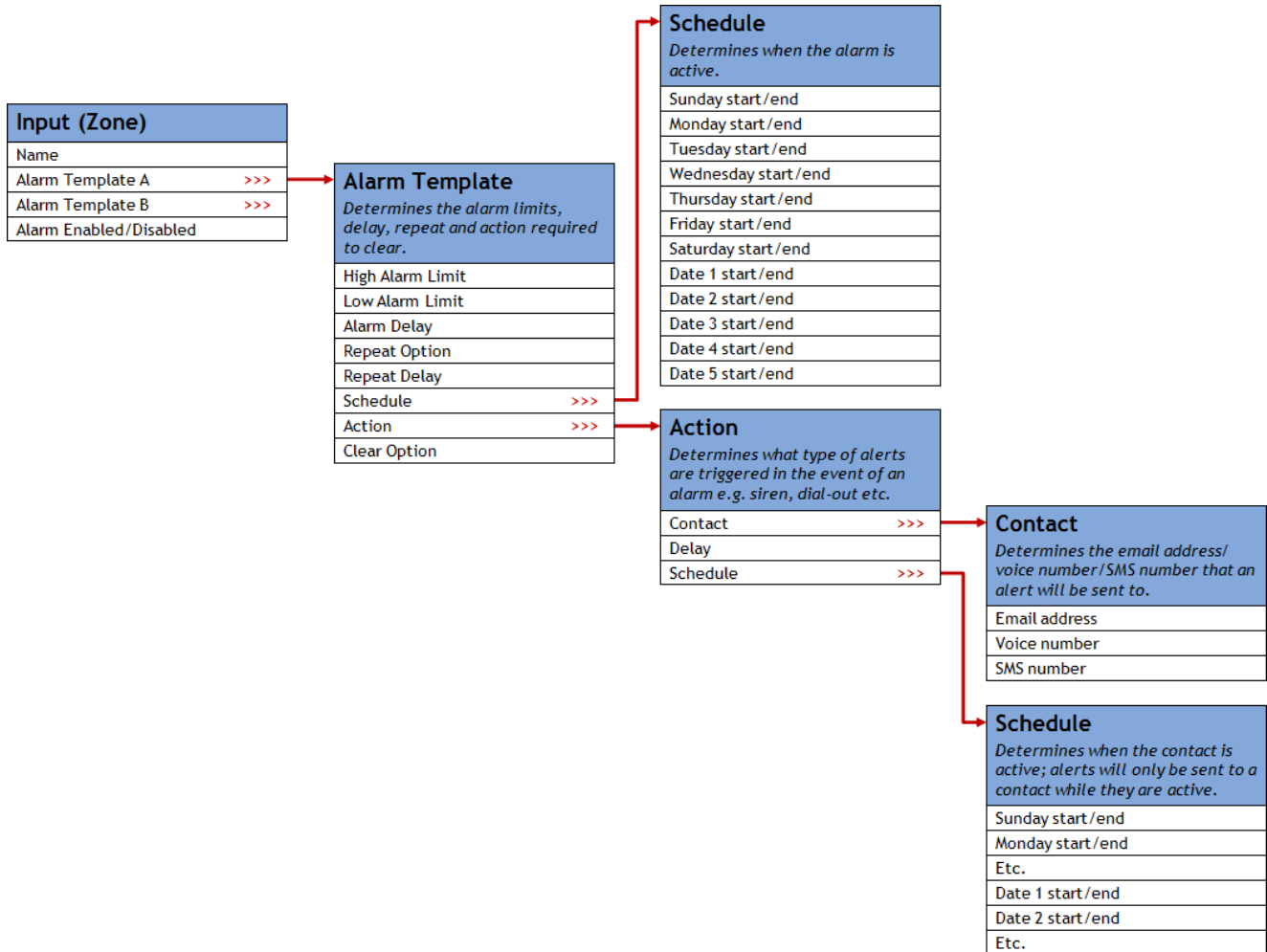
(For a schematic of the alarm configuration see overleaf)

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Schematic of the alarm configuration

The configuration of alarms on a RIOT-S or RIOT-SD Autodialler involves a number of different elements as shown in the schematic below:



Changing the Alarm Siren

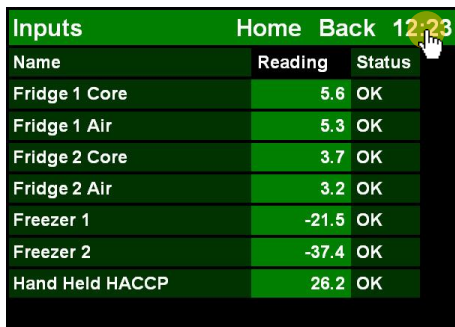
Introduction

The siren on the RIOT-S is controlled by two parameters: a ‘Siren On’ time and a ‘Siren Off’ time. These control how long each “beep” will be, and how much silence there will be between each beep.

Tip: To silence the siren altogether, set the ‘Siren On’ time to “00:00”.

Instructions

1. Press the time in the top right corner of the screen.



Name	Reading	Status
Fridge 1 Core	5.6	OK
Fridge 1 Air	5.3	OK
Fridge 2 Core	3.7	OK
Fridge 2 Air	3.2	OK
Freezer 1	-21.5	OK
Freezer 2	-37.4	OK
Hand Held HACCP	26.2	OK

The screenshot shows a green header bar with 'Inputs', 'Home', 'Back', and '12:23'. A mouse cursor is pointing at the time '12:23'.

The ‘Setup’ menu will be displayed.

Note: If you are not already logged on as a user then you will be prompted to do so. To change the siren parameters you will need to log on as a user with a “service” access level.

2. Press the ‘System Config’ button.



Setup	Home Back 12:23
Alm Templates	Logoff now
Actions	Contacts / Users
Schedules	Set Time
Input List	Service Menu
System Config	Sounds Menu
Print Log	Touch Calibrate

The screenshot shows a green header bar with 'Setup', 'Home', 'Back', and '12:23'. A mouse cursor is pointing at the 'System Config' button.

The ‘System’ parameters screen will be displayed.

3. Press the setting for the parameter that you want to change e.g. 'Siren Off'.

System	Home	Back	12:23
Parameter	Setting		
Site Name	Building 1		
Input ID	Hide		
Siren Clear	Ack		
Siren On	00:01	sec	
Siren Off	00:03	sec	
Relay Clear	Time		
On Time	00:10	sec	
Min. React	00:02	sec	



An 'Edit' screen will be displayed showing the current setting for the selected parameter.

4. Make the required changes to the setting, then press 'Ent' to save.

Edit	Home	Back	12:23
Siren Off			
<	00:10	>	
5	6	7	8
0	1	2	3
Can	⏪	⏩	Ent

You will be returned to the 'System' parameters screen. This should show the updated setting.

Note: If you do not want to save the changes you have made, then press the 'Can' button to cancel.

Tip: If you need to edit several parameters, then use the  and  buttons on the 'Edit' screen to move quickly through the settings rather than pressing 'Ent' and going back to the main parameters screen each time. Any changes you make will be saved as you move from one setting to the next.

5. When you have finished changing the siren parameters, press the 'Home' button to return to the 'Home' screen.

System	Home	Back	12:23
Parameter	Setting		
Site Name	Building 1		
Input ID	Hide		
Siren Clear	Ack		
Siren On	00:01	sec	
Siren Off	00:10	sec	
Relay Clear	Time		
On Time	00:10	sec	
Min. React	00:02	sec	

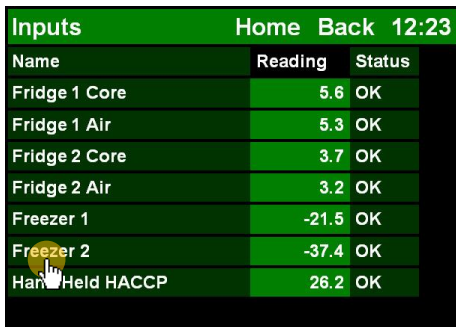
Changing Alarm Limits and Delays

Introduction

It is important that your RIOT-S is set up with the correct alarm settings for each input. These include the high and low limits for the input and the required delay before an alarm is triggered.

Instructions

1. From the 'Home' screen, press the name of the input whose alarm settings you wish to change.



Inputs			Home	Back	12:23
Name	Reading	Status			
Fridge 1 Core	5.6	OK			
Fridge 1 Air	5.3	OK			
Fridge 2 Core	3.7	OK			
Fridge 2 Air	3.2	OK			
Freezer 1	-21.5	OK			
Freezer 2	-37.4	OK			
Hand Held HACCP	26.2	OK			

The parameters screen for the selected input will be displayed.

2. Press the '>>>' button, to the right of the alarm you wish to change. E.g. 'Alarm A' (Freezer 2 Alarm).



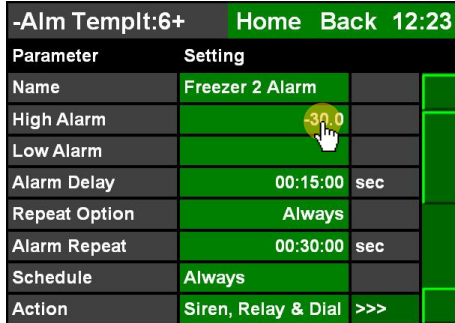
Freezer 2			Home	Back	12:23
Parameter	Setting	Units			
Name	Freezer 2				
Reading	-37.4	C			
Alarm A	Freezer 2 Alarm	>>>			
High Alarm	-30.0	C			
Low Alarm		C			
Alarm Delay	00:15:00	sec			
Alarm B	Disabled				
Alarms	Enabled	>>>			

The parameters screen for the selected alarm will be displayed.

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- Press the setting for the parameter that you want to enter/change e.g. 'High Alarm' - see overleaf for a full list/description of these parameters.

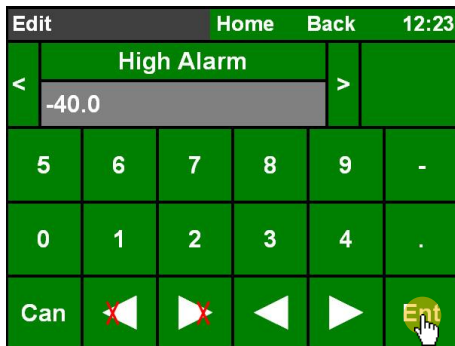


Parameter	Setting
Name	Freezer 2 Alarm
High Alarm	30.0
Low Alarm	
Alarm Delay	00:15:00 sec
Repeat Option	Always
Alarm Repeat	00:30:00 sec
Schedule	Always
Action	Siren, Relay & Dial >>>

An 'Edit' screen will be displayed showing the current setting for the selected parameter.

Note: If you are not already logged on as a user then you will be prompted to do so. To modify alarm settings you will need to log on as a user with a "manager" or "service" access level.



- Make the required changes to the setting, then press 'Ent' to save.



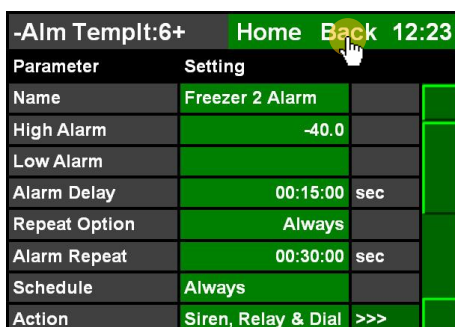
Edit						Home	Back	12:23
<	High Alarm				>			
	-40.0							
5	6	7	8	9	-			
0	1	2	3	4	.			
Can	<	>	<	>	Ent			

You will be returned to the configuration parameters screen. This should show the updated setting.

Note: If you do not want to save the changes you have made, then press the 'Can' button to cancel.

Tip: If you need to edit several parameters, then use the  and  buttons on the 'Edit' screen to move quickly through the settings rather than pressing 'Ent' and going back to the main parameters screen each time. Any changes you make will be saved as you move from one setting to the next.

- Enter/amend the settings for the other parameters in the same way - see overleaf for a full list/description of these parameters.
- When you have finished changing the alarm template parameters, press the 'Back' button to return to the parameters screen for the selected input.



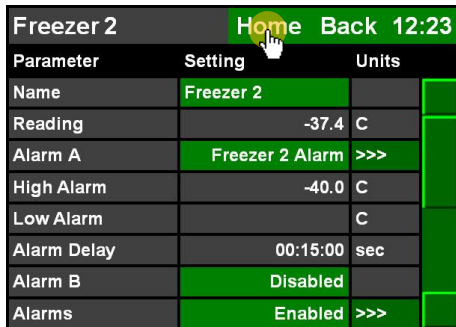
Parameter	Setting
Name	Freezer 2 Alarm
High Alarm	-40.0
Low Alarm	
Alarm Delay	00:15:00 sec
Repeat Option	Always
Alarm Repeat	00:30:00 sec
Schedule	Always
Action	Siren, Relay & Dial >>>

The parameters screen should show the updated settings.

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7. You can then press 'Home' to return to the 'Home' screen.



Freezer 2		Home	Back	12:23
Parameter	Setting		Units	
Name	Freezer 2			
Reading	-37.4		C	
Alarm A	Freezer 2 Alarm	>>>		
High Alarm	-40.0		C	
Low Alarm			C	
Alarm Delay	00:15:00		sec	
Alarm B	Disabled			
Alarms	Enabled	>>>		

Alarm Template Parameters

Parameter	Description
Name	The template's name.
High Alarm	The maximum value allowed before an alarm needs to be triggered (upper limit).
Low Alarm	The minimum value allowed before an alarm needs to be triggered (lower limit).
Alarm Delay	The amount of time that the minimum/maximum value needs to be exceeded for before an alarm will be triggered. Tip: Having appropriate alarm delays will help to prevent unnecessary alarms being triggered if the allowed limits are only exceeded momentarily.
Repeat Option	Controls whether the alarm will repeat if the alarm condition continues. If set to "After Ack" then the alarm will repeat if the alarm condition continues for a specified period after the previous alarm has been acknowledged. If set to "Always" then the alarm will repeat if the alarm condition continues for a specified period, regardless of whether the previous alarm has been acknowledged or not.
Alarm Repeat	Controls how long the system will wait before the alarm is repeated if the alarm condition continues.
Schedule	Controls when the alarm will actually be active i.e. on what days of the week and at what times.
Action	Controls what the system will do in response to an alarm i.e. what contacts will be activated.
Alarm Clear	Controls how the alarm will be cleared. Note: It is recommended that this should always be set to "After Ack".
Inhibit Mode	Allows the alarm to be temporarily turned off for a specified period of time.
Inhibit Time	Defines the length of time that the alarm will be temporarily turned off for.
Dial Zone	Links the alarm to a dial zone on a RIOT-SD Autodialler.
Used by	Shows the number of inputs that the alarm template is used by. Note: The system will display a warning if you go to modify a template that is used by more than one input.

Disabling the Alarms for an Individual Input

Introduction

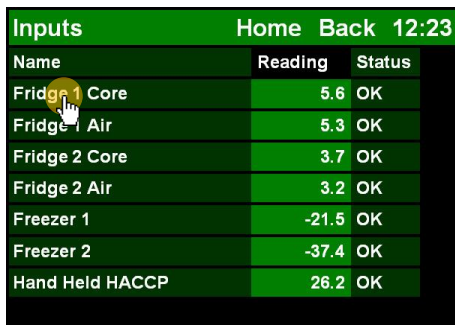
From time to time you may want to disable the alarms for a particular input e.g. if an area is temporarily out of use and therefore won't be maintained within the normal high and low limits.

Note: If an input is currently in alarm, then that alarm will need to be resolved (acknowledged and cleared) before the input's alarms are disabled.

Tip: To clear the alarm you may need to modify the input's alarm limits so that the current reading is within the high/low limits.

Instructions

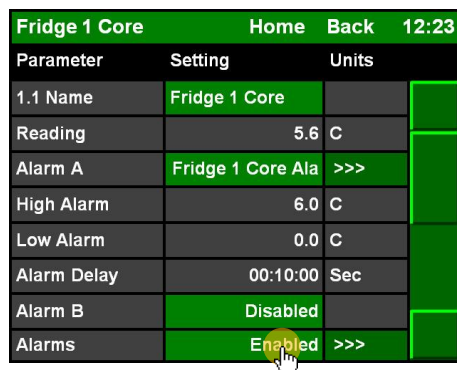
1. From the 'Home' screen, press the name of the input that you want to disable the alarms for.



Inputs			Home	Back	12:23
Name	Reading	Status			
Fridge 1 Core	5.6	OK			
Fridge 1 Air	5.3	OK			
Fridge 2 Core	3.7	OK			
Fridge 2 Air	3.2	OK			
Freezer 1	-21.5	OK			
Freezer 2	-37.4	OK			
Hand Held HACCP	26.2	OK			

The parameters screen for the selected input will be displayed.

2. Press the 'Alarms' setting.



Fridge 1 Core			Home	Back	12:23
Parameter	Setting	Units			
1.1 Name	Fridge 1 Core				
Reading	5.6	C			
Alarm A	Fridge 1 Core Ala	>>>			
High Alarm	6.0	C			
Low Alarm	0.0	C			
Alarm Delay	00:10:00	Sec			
Alarm B	Disabled				
Alarms	Enabled	>>>			

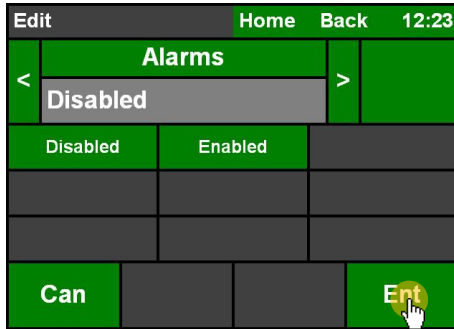
An 'Edit' screen will be displayed showing the current setting.

Note: If you are not already logged on as a user then you will be prompted to do so. To set up alarm schedules you need to be logged on as a user with 'manager' or 'service' access level.

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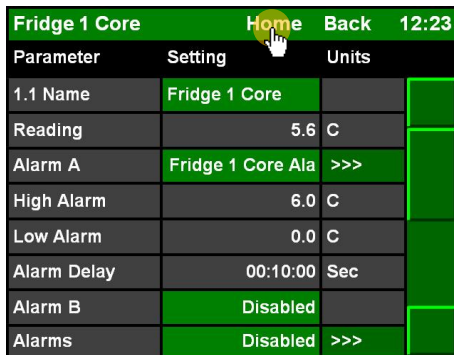
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3. Select 'Disabled', then press 'Ent' to save.



You will be returned to the parameters screen for the selected input. This should now show 'Disabled' for the 'Alarms' setting.

4. Press 'Home' to return to the 'Home' screen.



After a few moments the 'Home' screen should stop showing a status for the input. This indicates that its alarms are disabled.

The screenshot shows a table of inputs with their readings and status.

Name	Reading	Status
Fridge 1 Core	5.6	
Fridge 1 Air	5.3	OK
Fridge 2 Core	3.7	OK
Fridge 2 Air	3.2	OK
Freezer 1	-21.5	OK
Freezer 2	-37.4	OK
Hand Held HACCP	26.2	OK

Changing an Alarm Schedule

Introduction

The alarm schedules determine the times of day/days of the week when your inputs are actively alarmed. They can also be used to control different alarm actions e.g. different contacts to alert, depending on the time of day/day of the week.

Instructions

1. From the 'Home' screen, press the time in the top right corner of the screen.

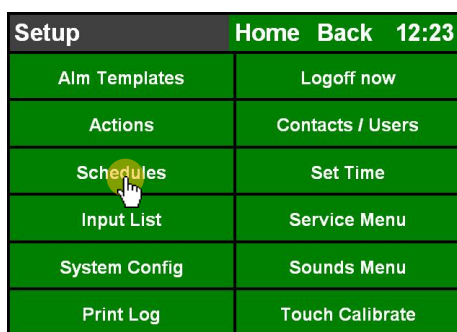


Inputs	Home	Back	12:23
Name	Reading	Status	
Fridge 1 Core	5.6	OK	
Fridge 1 Air	5.3	OK	
Fridge 2 Core	3.7	OK	
Fridge 2 Air	3.2	OK	
Freezer 1	-21.5	OK	
Freezer 2	-37.4	OK	
Hand Held HACCP	26.2	OK	

The 'Setup' menu will be displayed.

Note: If you are not already logged on as a user then you will be prompted to do so. To set up alarm schedules you need to be logged on as a user with Manager or Service access level.

2. Press the 'Schedules' button.



Setup	Home	Back	12:23
Alm Templates	Logoff now		
Actions	Contacts / Users		
Schedules	Set Time		
Input List	Service Menu		
System Config	Sounds Menu		
Print Log	Touch Calibrate		

A list of the current schedules will be displayed.

3. To change an existing schedule, press the name of that schedule.

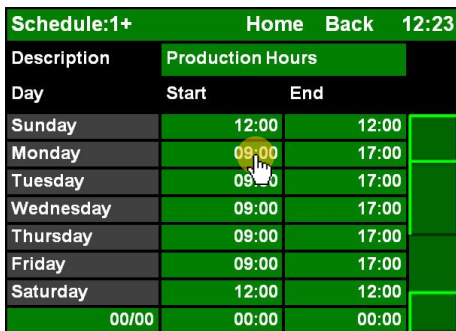


No.	Name
1	Production Hours
2	Out of Hours
3	
4	
5	
6	
7	
8	

The parameters screen for the selected schedule will be displayed.

Note: You do not need to set up a schedule for 24/7 operating as the RIOT-S has an in-built schedule of “Always” that can be used where required.

4. Press the current setting for the parameter you want to change e.g. Monday’s ‘Start’ time.



Description	Production Hours	
Day	Start	End
Sunday	12:00	12:00
Monday	09:00	17:00
Tuesday	09:00	17:00
Wednesday	09:00	17:00
Thursday	09:00	17:00
Friday	09:00	17:00
Saturday	12:00	12:00
	00:00	00:00



An ‘Edit’ screen will be displayed showing the current setting.

5. Make the required changes to the setting, then press ‘Ent’ to save.



Edit						Home	Back	12:23
Monday:Start						<	>	
06:00								
5	6	7	8	9	-			
0	1	2	3	4	.			
Can	<	>	<	>	Ent			

You will be returned to the parameters screen for the selected schedule. This should show the updated setting.

Tip: If you need to edit several settings, then use the  and  buttons on the *Edit* screen to move quickly through the parameters rather than pressing ‘Ent’ and going back to the main configuration screen each time. Any changes you make will be saved as you move from one parameter to the next.

6. Change the settings for any of the other parameters in the same way, then press 'Back' to return to the list of schedules or 'Home' to return to the 'Home' screen.

Description	Day	Start	End
Production Hours	Sunday	12:00	12:00
	Monday	06:00	17:00
	Tuesday	06:00	17:00
	Wednesday	06:00	17:00
	Thursday	06:00	17:00
	Friday	06:00	17:00
	Saturday	12:00	12:00
	00/00	00:00	00:00

No.	Name
1	Production Hours
2	Out of Hours
3	
4	
5	
6	
7	
8	

Note: To set up a schedule for all of the day, set the start time to 00:00 and the end time to 00:00.

To set up a schedule for none of the day, set the start time to 12:00 and the end time to 12:00.

To set up a schedule that runs overnight e.g. from 5pm in the evening to 6am the following morning, then set the start time to 17:00 and the end time to 06:00. Although this means that the end time is theoretically after the start time, the system will nevertheless interpret it correctly.

You do not need to set up a schedule for 24/7 operating as the RIOT-S has an in-built schedule of "Always" that can be used where required.

Note: If you have any dates that do not fit the normal weekly pattern, such as Christmas Day or Boxing Day, then these can be added as exceptions.

You can add up to 5 exceptions to a schedule.

For dates such as Easter that change each year, you will need to amend the schedule annually so that it has the correct dates for the upcoming year.

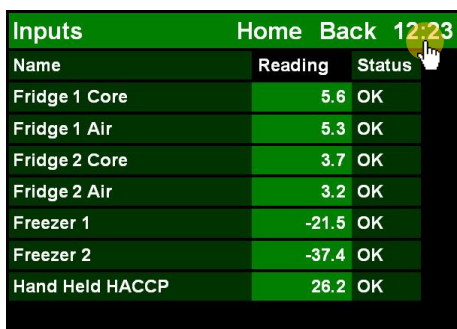
Adding a Contact to an Alarm

Introduction

If you want particular contacts to be alerted in the event of an alarm, then those contacts need to be added to the corresponding alarm actions.

Instructions

1. From the 'Home' screen, press the time in the top right corner of the screen.

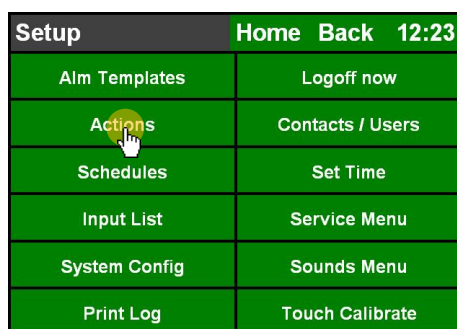


Name	Reading	Status
Fridge 1 Core	5.6	OK
Fridge 1 Air	5.3	OK
Fridge 2 Core	3.7	OK
Fridge 2 Air	3.2	OK
Freezer 1	-21.5	OK
Freezer 2	-37.4	OK
Hand Held HACCP	26.2	OK

The 'Setup' menu will be displayed.

Note: If you are not already logged on as a user then you will be prompted to do so. To add a contact to an alarm you will need to log on as a user with a "manager" or "service" access level.

2. Press the 'Actions' button.



Alm Templates	Logoff now
Actions	Contacts / Users
Schedules	Set Time
Input List	Service Menu
System Config	Sounds Menu
Print Log	Touch Calibrate

A list of the current actions will be displayed.

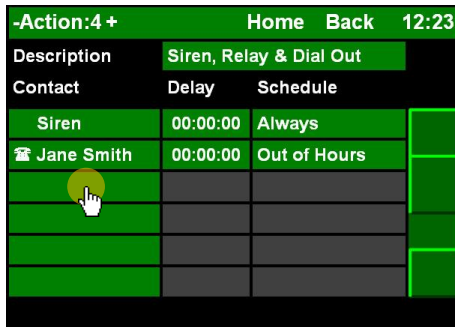
3. Select the action you want to change.



No.	Name
1	Siren Only
2	Relay Only
3	Siren & Relay
4	Siren, Relay & Dial Out
5	
6	
7	
8	

The parameters screen for the selected action will be displayed.

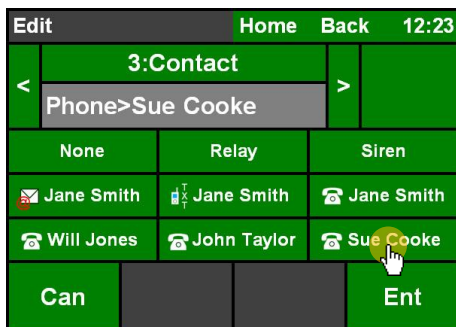
4. To add a new contact to the alarm, press one of the blank 'Contact' fields.



An 'Edit' screen will be displayed showing the available contacts that can be added to the action.

5. Select the contact/type of alert that you want to add from the choices on the 'Edit' screen, then press 'Ent' to save.

Note: If you want the system to send out alarm alerts via email/telephone/text, then you must set up an email address/voice number/mobile number on the contacts that you want those alerts sent to.



You will be returned to the parameters screen. This should show the updated setting.

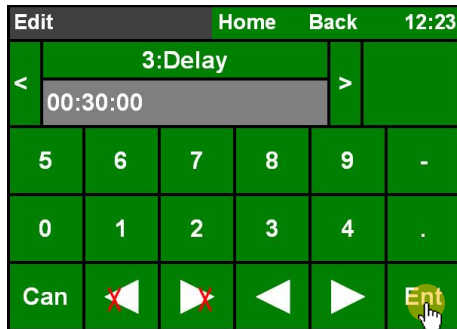
Note: If you do not want to save the changes you have made, then press the 'Can' button to cancel.

6. By default, the new contact will be given a delay of "00:00:00" and a schedule of "Always". To change either of these parameters, press the corresponding setting.





An 'Edit' screen will be displayed showing the current setting for the selected parameter.

7. Change the setting as required, then press 'Ent' to save.



You will be returned to the parameters screen. This should show the updated setting.

Note: If you do not want to save the changes you have made, then press the 'Can' button to cancel.

Tip: If you need to edit several parameters, then use the  and  buttons on the 'Edit' screen to move quickly through the settings rather than pressing 'Ent' and going back to the main parameters screen each time. Any changes you make will be saved as you move from one setting to the next.

8. When you have finished entering/changing the contact's parameters, press the 'Back' button to return to the list of alarm actions.



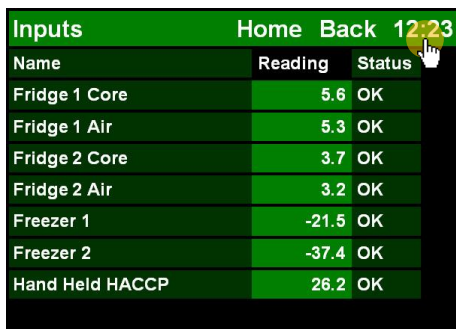
Removing a Contact from an Alarm

Introduction

If a particular contact is no longer to be contacted in the event of an alarm, then they will need to be removed from the corresponding alarm action(s).

Instructions

1. From the 'Home' screen, press the time in the top right corner of the screen.

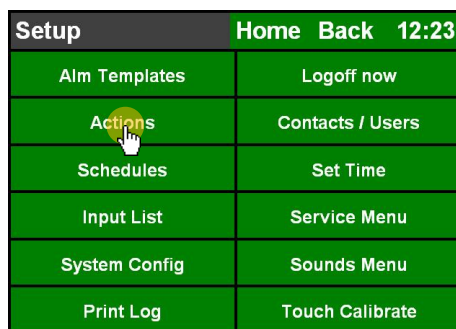


Name	Reading	Status
Fridge 1 Core	5.6	OK
Fridge 1 Air	5.3	OK
Fridge 2 Core	3.7	OK
Fridge 2 Air	3.2	OK
Freezer 1	-21.5	OK
Freezer 2	-37.4	OK
Hand Held HACCP	26.2	OK

The 'Setup' menu will be displayed.

Note: If you are not already logged on as a user then you will be prompted to do so. To remove a contact from an alarm you will need to log on as a user with a "manager" or "service" access level.

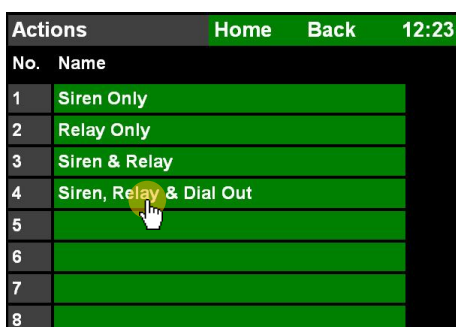
2. Press the 'Actions' button.



Alm Templates	Logoff now
Actions	Contacts / Users
Schedules	Set Time
Input List	Service Menu
System Config	Sounds Menu
Print Log	Touch Calibrate

A list of the current actions will be displayed.

3. Select the action you want to change.



No.	Name
1	Siren Only
2	Relay Only
3	Siren & Relay
4	Siren, Relay & Dial Out
5	
6	
7	
8	

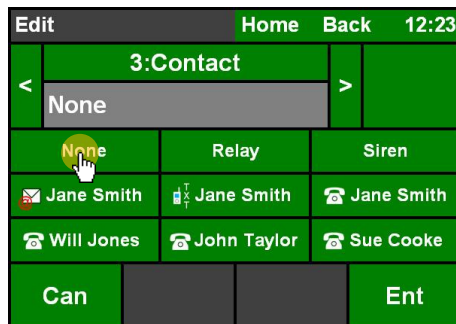
The parameters screen for the selected action will be displayed.

4. To remove a contact from the alarm action, press their name.





An 'Edit' screen will be displayed showing the current setting for the selected parameter.

5. Select 'None' to remove the contact or select an alternative contact to replace them, then press 'Ent' to save.



You will be returned to the parameters screen. This should show the updated setting.

Note: If you do not want to save the changes you have made, then press the 'Can' button to cancel.

Tip: If you need to edit several parameters, then use the  and  buttons on the 'Edit' screen to move quickly through the settings rather than pressing 'Ent' and going back to the main parameters screen each time. Any changes you make will be saved as you move from one setting to the next.

6. When you have finished changing the alarm action's contacts, press the 'Back' button to return to the list of alarm actions.



Recording Sounds for Alarm Messages

Introduction

If your RIOT-S has a GSM or PSTN Dialout Module then you can record sounds for your site name; for each input; and for each different alarm. These sounds are then used by the system to construct the voice messages that will alert you of any alarms as shown below:

[Site Name]... [Input Sound]... [Alarm Sound]

For example: AAW Control Systems... Fridge 1 Air... high temperature alarm

IMPORTANT: For voice messages to work properly when an alarm is triggered you also need to add the appropriate telephone numbers to the appropriate contacts, and add those contacts to the relevant alarm actions.

Instructions

1. From the 'Home' screen, press the time in the top right corner.

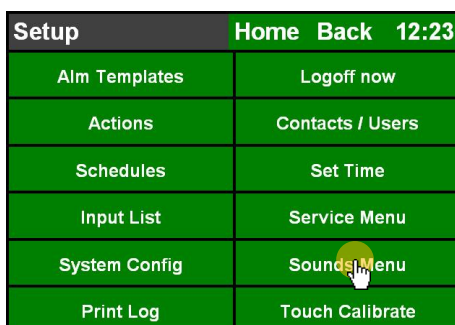


Name	Reading	Status
Fridge 1 Core	5.6	OK
Fridge 1 Air	5.3	OK
Fridge 2 Core	3.7	OK
Fridge 2 Air	3.2	OK
Freezer 1	-21.5	OK
Freezer 2	-37.4	OK
Hand Held HACCP	26.2	OK

The 'Setup' menu will be displayed.

Note: If you are not already logged on as a user then you will be prompted to do so. To set up alarm schedules you need to be logged on as a user with 'manager' or 'service' access level.

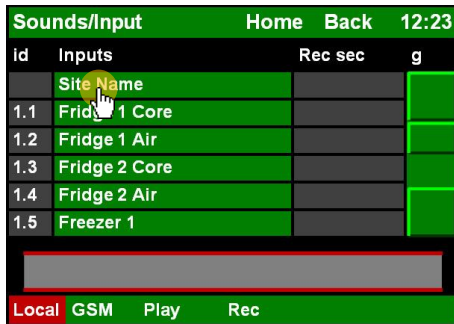
2. Press the 'Sounds Menu' button.



Setup	Home Back 12:23
Alm Templates	Logoff now
Actions	Contacts / Users
Schedules	Set Time
Input List	Service Menu
System Config	Sounds Menu
Print Log	Touch Calibrate

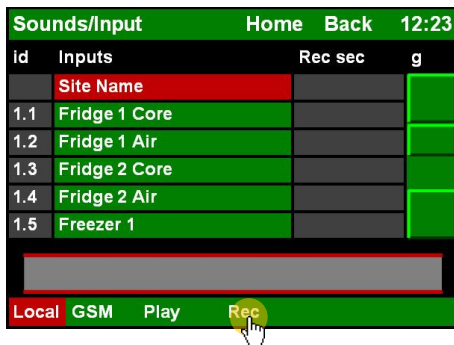
The 'Sounds/Input' screen will be displayed.

3. Select the 'Site Name' input.



The input will be highlighted in red to indicate it has been selected successfully.

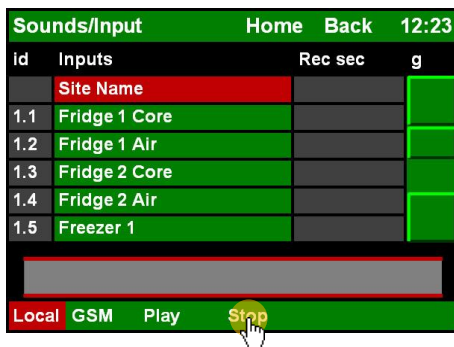
4. Press the 'Rec' button and speak the name of the site/facility that the RIOT-S will be monitoring.



A trace of the sound will be displayed across the screen as you're recording.

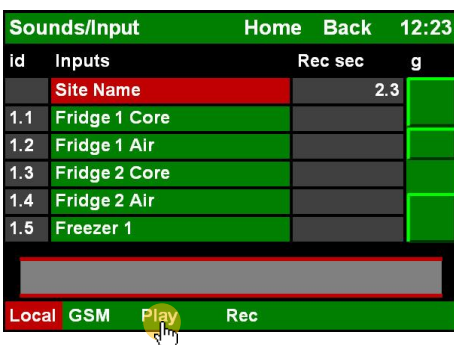
Note: Before recording, make sure that the required input is highlighted in red to indicate that it has been selected successfully.

5. Press the 'Stop' button when you have finished.



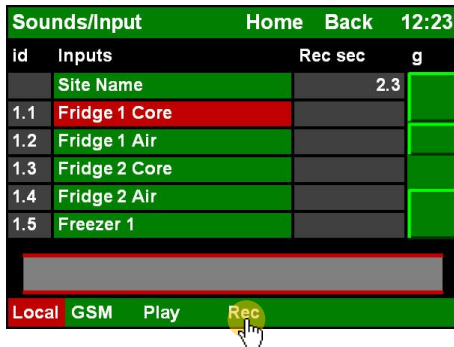
Alternatively the recording will stop automatically after 4 seconds.

6. Press the 'Play' button to check your recording.



The recorded sound will be played back to you.

7. Select/record a sound for each of the inputs in turn.



Note: Before recording, make sure that the required input is highlighted in red to indicate that it has been selected successfully.

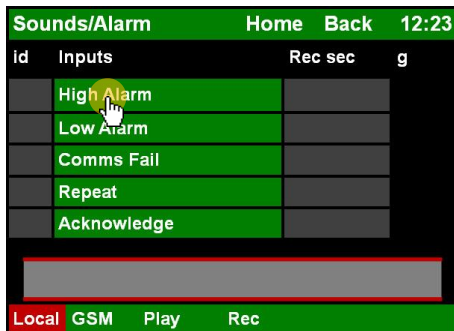
8. Press the 'Sounds/Inputs' heading at the top of the screen.



The heading will change to "Sounds/Alarm" and a list of the different alarms will be displayed.

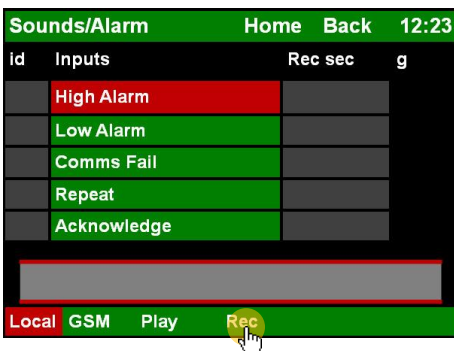
Note: To go back to the 'Sounds/Input' screen, press the 'Sounds/Alarm' heading at the top of the screen.

9. Select the alarm that you want to record a sound for.



The alarm will be highlighted in red to indicate it has been selected successfully.

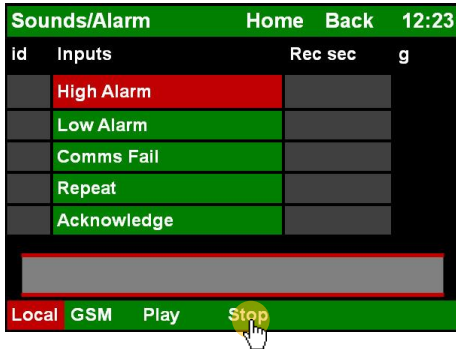
10. Press the 'Rec' button and speak the required alarm message.



A trace of the sound will be displayed across the screen as you're recording.

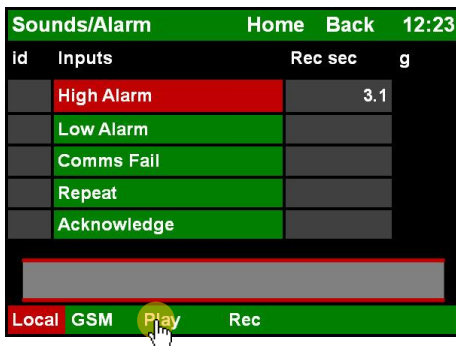
Note: Before recording, make sure that the required alarm is highlighted in red to indicate that it has been selected successfully.

11. Press the 'Stop' button when you have finished.



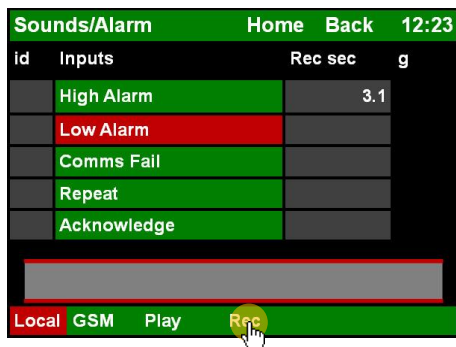
Alternatively the recording will stop automatically after 4 seconds.

12. Press the 'Play' button to check your recording.



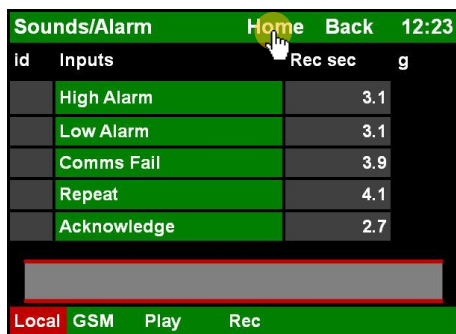
The recorded sound will be played back to you.

13. Select/record a sound for each of the other alarms in turn.



Note: Before recording, make sure that the required alarm is highlighted in red to indicate that it has been selected successfully.

14. Press the 'Home' button when finished.



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