



# Adding & Managing Alarms

# **A guide to adding & managing alarms in Real-Time Online**

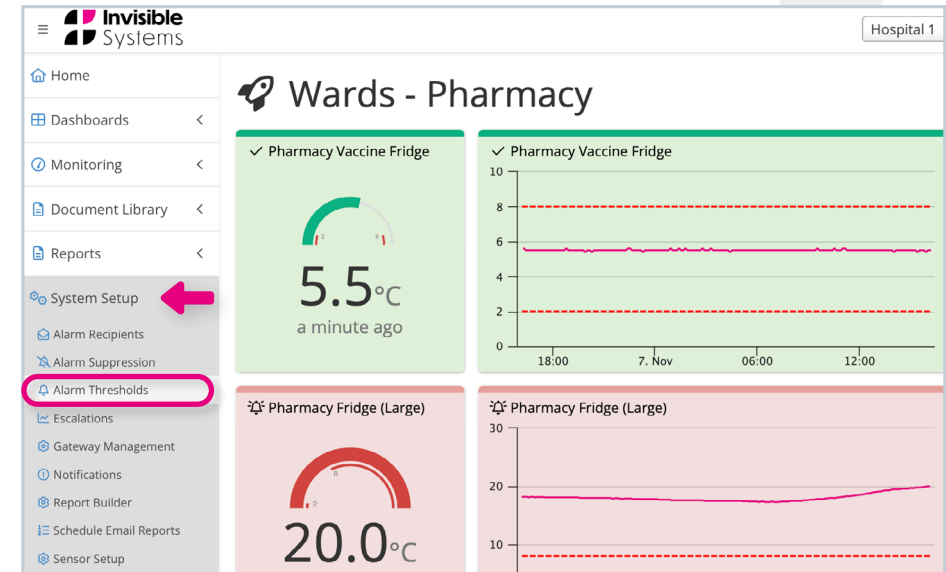
This guide will take you through the steps of adding new alarms in Real-Time Online and editing their details and thresholds.

# Step 1

To set up an alarm for a sensor, **click 'System setup'** from the side menu, then **select 'Alarm thresholds'**.

# Step 2

You'll see a list of all your sensors. To find the sensor that you want to add an alarm to, you can **search for it using the search bar**.



The screenshot shows the 'Alarm Thresholds' configuration page. It includes sections for 'Alarm Periods', 'System Offline Delay', and 'Condition Based Alarms'. A search bar is highlighted in the top right of the table area.

Sensor	Unit	Enabled	Delay (Mins)	Day Min	Day Max	Night Min	Night Max	Warning %	Healthy State	Offline Alert
Centenary Unit Fridge	°C	<input checked="" type="checkbox"/>	0	1	8	2	8	0	7	<input type="checkbox"/>
Centenary Unit Room	°C	<input checked="" type="checkbox"/>	0	15	25	15	25	0	7	<input type="checkbox"/>
Centenary Unit Vaccine Fridge	°C	<input checked="" type="checkbox"/>	0	2	8	2	8	0	7	<input type="checkbox"/>
Education Centre Humidity	%RH	<input checked="" type="checkbox"/>	0	40	60	20	80	0	7	<input type="checkbox"/>
Education Centre Temperature	°C	<input checked="" type="checkbox"/>	0	15	25	15	25	0	7	<input type="checkbox"/>
Outpatients Fridge	°C	<input checked="" type="checkbox"/>	0	2	8	2	8	0	7	<input type="checkbox"/>
Outpatients Room	°C	<input checked="" type="checkbox"/>	0	15	25	10	30	0	7	<input type="checkbox"/>
Pathology Lab	°C	<input checked="" type="checkbox"/>	0	15	25	15	25	0	7	<input type="checkbox"/>
Pathology Lab Fridge	°C	<input checked="" type="checkbox"/>	0	2	8	2	8	0	7	<input type="checkbox"/>
Pharmacy Dispensary Room Humidity	%RH	<input checked="" type="checkbox"/>	0	15	60	40	60	0	7	<input type="checkbox"/>
Pharmacy Dispensary Room Temperature	°C	<input checked="" type="checkbox"/>	0	15	25	15	25	0	7	<input type="checkbox"/>

# Step 3

Next to your chosen sensor, you can **set its alarm details and thresholds**.

## You can:

- Choose **‘day’ start and end times** at the top of the page. ‘Night’ is classed as anything outside of these hours.
- Set **day and night thresholds**. These are the limits for your sensor - anything outside of these will trigger an alarm.
- Set a **‘delay’** - this is how long the reading can stay out of the threshold without raising an alarm. For example, you may decide that if a parameter dips below its minimum threshold for less than 30 minutes, then moves back to a safe level within that time, no alarm is triggered.

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### Alarm Thresholds

Alarm Periods

Day start time: 08:00 Day end time: 19:00

System Offline Delay: The default offline delay value, which can be inherited by the sensors on this system. 1 hour

#### Condition Based Alarms

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Sensor	Unit	Enabled	Delay (Mins)
Centenary Unit Fridge	°C	<input checked="" type="checkbox"/>	0
Centenary Unit Room	°C	<input checked="" type="checkbox"/>	0
Centenary Unit Vaccine Fridge	°C	<input checked="" type="checkbox"/>	0

System Offline Delay

The default offline delay value, which can be inherited by the sensors on this system. 1 hour

Search:

Unit	Enabled	Delay (Mins)	Day Min	Day Max	Night Min	Night Max	Warning %	Healthy State	Offline Alert
°C	<input checked="" type="checkbox"/>	0	1	8	2	8	0 ?	<input type="checkbox"/>	Off
°C	<input checked="" type="checkbox"/>	0	15	25	15	25	? ?	<input type="checkbox"/>	Off
°C	<input checked="" type="checkbox"/>	0	2	8	2	8	? ?	<input type="checkbox"/>	Off
%RH	<input checked="" type="checkbox"/>	0	40	60	20	80	? ?	<input type="checkbox"/>	Off
°C	<input checked="" type="checkbox"/>	0	15	25	15	25	? ?	<input type="checkbox"/>	Off
°C	<input checked="" type="checkbox"/>	0	2	8	2	8	0 ?	<input type="checkbox"/>	Off
°C	<input checked="" type="checkbox"/>	0	15	25	10	30	0 ?	<input type="checkbox"/>	Off
°C	<input checked="" type="checkbox"/>	0	15	25	15	25	? ?	<input type="checkbox"/>	Off
°C	<input checked="" type="checkbox"/>	0	2	8	2	8	? ?	<input type="checkbox"/>	Off

- You may also choose to **set up warning percentages**. These determine how close a sensor can be to triggering an alarm before sending out warning emails. A warning percentage of 10% would mean that the sensor was very close to setting off an alarm. Once it had reached this level, **warning messages would be sent out** to the relevant people.
- By checking **'Healthy state'**, you allow the system to **automatically remove alarms** once conditions are back within a healthy threshold.
- By **checking 'enabled'**, this alarm is now **saved to the system** and relevant stakeholders will receive emails and alerts should an alarm go off.

System Offline Delay

The default offline delay value, which can be inherited by the sensors on this system. 1 hour

Search:

	Unit	Enabled	Delay (Mins)	Day Min	Day Max	Night Min	Night Max	Warning %	Healthy State	Offline Alert
	°C	<input checked="" type="checkbox"/>	0	1	8	2	8	0 ?	<input type="checkbox"/>	Off
	°C	<input checked="" type="checkbox"/>	0	15	25	15	25	?	<input type="checkbox"/>	Off
	°C	<input checked="" type="checkbox"/>	0	2	8	2	8	?	<input type="checkbox"/>	Off
	%RH	<input checked="" type="checkbox"/>	0	40	60	20	80	?	<input type="checkbox"/>	Off
	°C	<input checked="" type="checkbox"/>	0	15	25	15	25	?	<input type="checkbox"/>	Off
	°C	<input checked="" type="checkbox"/>	0	2	8	2	8	0 ?	<input type="checkbox"/>	Off
	°C	<input checked="" type="checkbox"/>	0	15	25	10	30	0 ?	<input type="checkbox"/>	Off
	°C	<input checked="" type="checkbox"/>	0	15	25	15	25	?	<input type="checkbox"/>	Off
	°C	<input checked="" type="checkbox"/>	0	2	8	2	8	?	<input type="checkbox"/>	Off

System Offline Delay

The default offline delay value, which can be inherited by the sensors on this system. 1 hour

Search:

	Unit	Enabled	Delay (Mins)	Day Min	Day Max	Night Min	Night Max	Warning %	Healthy State	Offline Alert
	°C	<input checked="" type="checkbox"/>	0	1	8	2	8	0 ?	<input type="checkbox"/>	Off
	°C	<input checked="" type="checkbox"/>	0	15	25	15	25	?	<input type="checkbox"/>	Off
	°C	<input checked="" type="checkbox"/>	0	2	8	2	8	?	<input type="checkbox"/>	Off
	%RH	<input checked="" type="checkbox"/>	0	40	60	20	80	?	<input type="checkbox"/>	Off
	°C	<input checked="" type="checkbox"/>	0	15	25	15	25	?	<input type="checkbox"/>	Off
	°C	<input checked="" type="checkbox"/>	0	2	8	2	8	0 ?	<input type="checkbox"/>	Off
	°C	<input checked="" type="checkbox"/>	0	15	25	10	30	0 ?	<input type="checkbox"/>	Off
	°C	<input checked="" type="checkbox"/>	0	15	25	15	25	?	<input type="checkbox"/>	Off
	°C	<input checked="" type="checkbox"/>	0	2	8	2	8	?	<input type="checkbox"/>	Off

- You also have the option to **generate offline alerts**. These trigger an alarm when you have not received a message from a device with a certain number of hours.

You can **set a default offline time** under the **‘System Offline Delay’** section at the top of the page. The time you select here will be used when the value ‘Inherit’ is selected from the ‘Offline Alert’ drop-down list.

You can also **choose specific offline times** for each sensor by selecting your desired delay time from this list.

Make sure to **click ‘Save all’** after making any changes.

System Offline Delay

The default offline delay value, which can be inherited by the sensors on this system. 1 hour

Search:

	Unit	Enabled	Delay (Mins)	Day Min	Day Max	Night Min	Night Max	Warning %	Healthy State	Offline Alert
	°C	<input checked="" type="checkbox"/>	0	1	8	2	8	0	<input type="checkbox"/>	3 hours
	°C	<input checked="" type="checkbox"/>	0	15	25	15	25		<input type="checkbox"/>	Off
	°C	<input checked="" type="checkbox"/>	0	2	8	2	8		<input type="checkbox"/>	2 hours
	%RH	<input checked="" type="checkbox"/>	0	40	60	20	80		<input type="checkbox"/>	Off
	°C	<input checked="" type="checkbox"/>	0	15	25	15	25		<input type="checkbox"/>	Inherit
	°C	<input checked="" type="checkbox"/>	0	2	8	2	8	0	<input type="checkbox"/>	2 hours
	°C	<input checked="" type="checkbox"/>	0	15	25	10	30	0	<input type="checkbox"/>	3 hours
	°C	<input checked="" type="checkbox"/>	0	15	25	15	25		<input type="checkbox"/>	6 hours
	°C	<input checked="" type="checkbox"/>	0	2	8	2	8		<input type="checkbox"/>	12 hours
	°C	<input checked="" type="checkbox"/>	0	2	8	2	8		<input type="checkbox"/>	24 hours
	°C	<input checked="" type="checkbox"/>	0	2	8	2	8		<input type="checkbox"/>	Off

%RH	<input checked="" type="checkbox"/>	0	40	60	20	80		<input type="checkbox"/>	3 hours
°C	<input checked="" type="checkbox"/>	0	15	25	15	25		<input type="checkbox"/>	Inherit
°C	<input checked="" type="checkbox"/>	0	2	8	2	8	0	<input type="checkbox"/>	Inherit
°C	<input checked="" type="checkbox"/>	0	15	25	10	30	0	<input type="checkbox"/>	Off
°C	<input checked="" type="checkbox"/>	0	15	25	15	25		<input type="checkbox"/>	1 hour
°C	<input checked="" type="checkbox"/>	0	2	8	2	8		<input type="checkbox"/>	Inherit
%RH	<input checked="" type="checkbox"/>	0	15	60	40	60		<input type="checkbox"/>	Off
°C	<input checked="" type="checkbox"/>	0	15	25	15	25		<input type="checkbox"/>	Off
°C	<input checked="" type="checkbox"/>	0	2	8	2	8		<input type="checkbox"/>	Off
°C	<input checked="" type="checkbox"/>	0	2	8	2	8		<input type="checkbox"/>	Off
°C	<input checked="" type="checkbox"/>	0	15	25	15	25		<input type="checkbox"/>	Off
°C	<input checked="" type="checkbox"/>	0	15	25	15	25		<input type="checkbox"/>	Off
°C	<input checked="" type="checkbox"/>	0	2	8	2	8		<input type="checkbox"/>	Off

Save all

# Step 4

If you wish, you can **export the set-up of your alarms** by clicking the 'PDF' and 'Excel' buttons.

**All changes to sensors and alarms are logged**, so you can track who did what and when. This is especially handy for audits.

To view sensors in different systems, simply **select the relevant system name** from the drop-down list at the top of the page.

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## Alarm Thresholds

Alarm Periods

Day start time: 08:00 Day end time: 19:00

System Offline Delay

The default offline delay value

Condition Based Alarms

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Sensor	Unit	Enabled	Delay (Mins)	Day Min
Centenary Unit Fridge	°C	<input checked="" type="checkbox"/>	0	1
Centenary Unit Room	°C	<input checked="" type="checkbox"/>	0	15
Centenary Unit Vaccine Fridge	°C	<input checked="" type="checkbox"/>	0	2
Education Centre Humidity	%RH	<input checked="" type="checkbox"/>	0	40
Education Centre Temperature	°C	<input checked="" type="checkbox"/>	0	15
Outpatients Fridge	°C	<input checked="" type="checkbox"/>	0	2

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## Alarm Thresholds

Day start time: 08:00 Day end time: 19:00

System Setup - Sensors

Condition Based Alarms

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Which can be inherited by the sensor

Unit	Enabled	Delay (Mins)	Day Min	Day Max	Night Min	Night Max	Wa
Fridge	<input checked="" type="checkbox"/>	0	1	8	2	8	
Room	<input checked="" type="checkbox"/>	0	15	25	15	25	
Vaccine Fridge	<input checked="" type="checkbox"/>	0	2	8	2	8	
Humidity	<input checked="" type="checkbox"/>	0	40	60	20	80	
Temperature	<input checked="" type="checkbox"/>	0	15	25	15	25	
ge	<input checked="" type="checkbox"/>	0	2	8	2	8	

**If you require any additional training, please contact**  
**[help@invisible-systems.com](mailto:help@invisible-systems.com)**

