

# Sensors

Sensors is the home screen for the mSupply ColdChain application. You can also access the Sensors screen by pressing the Sensors tab on the bottom left of the screen.



## Status bar

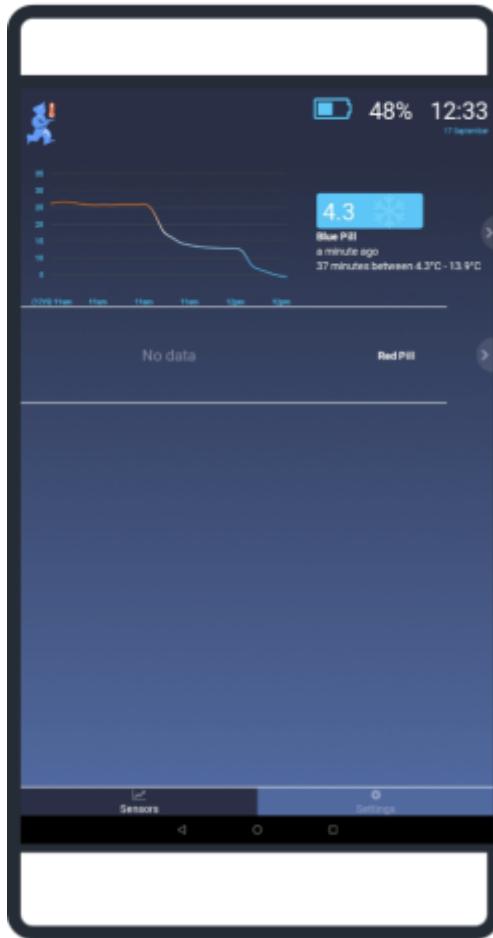
The status bar displayed across the top of the home screen shows:

**Date and time:** the current date and time are displayed as per the tablet time-zone settings.

**Battery:** an icon and percentage are displayed indicating charge remaining for the tablet.

## Sensor graphs

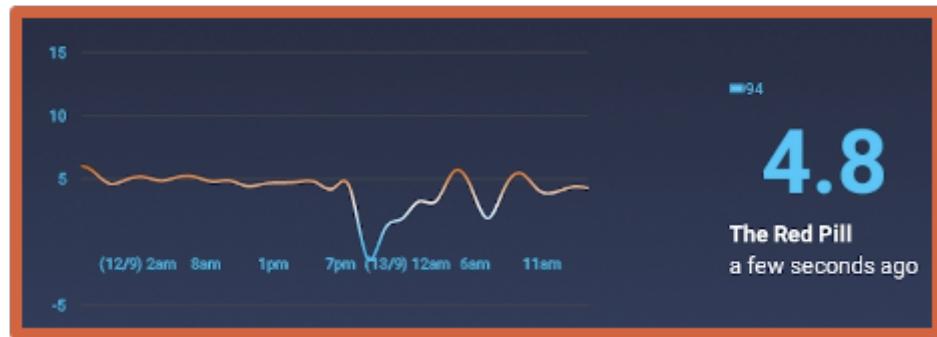
When using the mSupply ColdChain application for the first time, no sensors will be displayed. Please see **Sensor Settings: Available Sensors** for the instructions on how to find and set up sensors. Once sensors are linked to the application, a graph displaying temperature logs will be displayed on the Sensors tab (home page).



When a sensor is first linked and no temperatures have been logged, the graph will display with no data (as above for Red Pill). The graph will update when there are two temperature logs.

The graph will:

- **Display a temperature log for up to 72 hours.** The graph will display 30 logs. For less than 30 logs, each log will be displayed on the graph. For more than 30 logs, the overall time period will be divided into 30 periods and the average temperature for that period will be displayed.
- **Display up to 6 time intervals on the x-axis.** The time format is hh:mm. Date changes will always be indicated at 00:00 as dd/mm.
- **Display the temperature range in degrees Celsius on the y-axis.** The graph range will automatically update the minimum and maximum temperatures points to ensure that all logs can be displayed.



On the right-hand side, the following information will be displayed for each sensor:

- A **battery icon and percentage** indicating remaining charge for the sensor
- The **current temperature**
- The **name** of the sensor
- The **time** of the last temperature log

## Breaches

An indicator will also be displayed next to the text when there has been a breach for the sensor.

### Single exposure breach

A breach will be displayed when the temperature is lower or higher than the single exposure temperatures for the duration specified in the **single exposure breach settings**.



For temperatures below the cold breach, the snowflake icon will flash.



For temperatures above the hot breach, the thermostat icon will flash.

If there has been both a cold and a hot breach, the snowflake and thermostat icons will flash alternatively.

Single exposure breaches can be acknowledged and removed from the Sensor tab. Press and hold the alert to open the acknowledgement window. This will list all unacknowledged, single exposure breaches for your review. Selecting Acknowledge will remove the alert.

ACKNOWLEDGE BREACHES	
Hot breach	
started: 16/09/2020 14:00:39	
ended: 16/09/2020 14:55:39	
ACKNOWLEDGE	CANCEL

- Acknowledging breaches only removes the alert from the Sensor tab. Temperature logs remain and can be viewed in the Sensor Detail window and exported files.
- Any subsequent single exposure breaches will still result in alerts on the Sensor tab.
- You cannot acknowledge alerts if the temperature is currently outside the specified range ("in breach").

ACKNOWLEDGE BREACHES
The current breach is ongoing!

## Cumulative exposure breach

When the temperature is lower or higher than the cumulative breach temperatures for longer than the duration specified in the cumulative exposure breach settings over the last 72 hours. Text indicator giving the total time outside of specified temperature range as well as the range of temperatures. If there has been a hot and cold cumulative breach, there will be two text indicators.

2 hours between 20.6°C - 21.4°C

## Low battery warning



When the sensor battery is 15 percent or below, the battery icon will flash.

(The remainder of this page will be coming soon)

From:

<https://wiki.msupply.foundation/> - **mSupply Foundation Documentation**



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[https://wiki.msupply.foundation/en:cold\\_chain:sensors?rev=1613420997](https://wiki.msupply.foundation/en:cold_chain:sensors?rev=1613420997)

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