



Temperature Sensor

Administrator Guide



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1. Overview

CoronaSense is a device that reads users' body temperatures. Based on the average room temperature and the readings of other users based on configured rules, the device will warn a user of his situation by the means of an alert. The alert can be visual (color LCD screen, green = OK, red = alert), audible (alarm), or trigger an event such as sending an email and/or SMS. The temperatures measured are also recorded in a database for reporting purposes.

The principle is simple:

1. Install the device on a stand or on the wall.
2. Employees and/or customers stand in front of the device.
3. The result displayed on the terminal and recorded.
4. If the temperature is out of range and alert will be sent based on the alert configurations.

2. Device Setup Recommendations

The Coronasene device is intended for indoor use. It should be placed in an area that is a distance away from any outside doors, so the device is not affected by outside conditions. User's should have distance from outside doors so that their temperature is also not be affected by outside conditions.

A user's temperature is taken from the forehead in the area between the eyes, or in an open mouth. Users are recommended to be a distance of 15 cm or less from the device. Each user should be instructed how to get their temperature take by the device.

Each device requires a space of 1x1m for the unit. Make sure there is nothing in the area that can fall or hit the device. The height of the device is not quickly adjustable hence it cannot be adjusted for each user. It should be installed at approximately 1m60 in height so the majority of people will have no problem reaching the device.

The device performs an update every time it starts up. It should be restarted regularly to get the latest software updates.

3. Taking Walk up Temperature Measurements

Each users' temperature is taken when they walk up to the device. If they have a badge, it should be presented to the left side of the machine. The badge number will be recorded.

The user should then step forward so their forehead is approximately a distance of 15 cm or less from the machine. He can also take a measurement with his mouth open. The measurement will take less than one second.

After the sound signal a message is displayed:

- **Measurement added:** This appears during the first set of measurements when the device is initially configured.
- **Temperature OK:** This is displayed if the temperature is below a defined alert threshold.
- **Repeat measurement:** This is displayed if the system detects user movement during a reading. The user should repeat the measurement process.
- **Alert, probable fever:** This is displayed if the temperature is above a defined alert threshold.

4. Using the Coronasense Administration Module

The Coronasense Administration Module allows you to manage data and configure devices from any computer or device such as a cell phone or table using an internet connection.

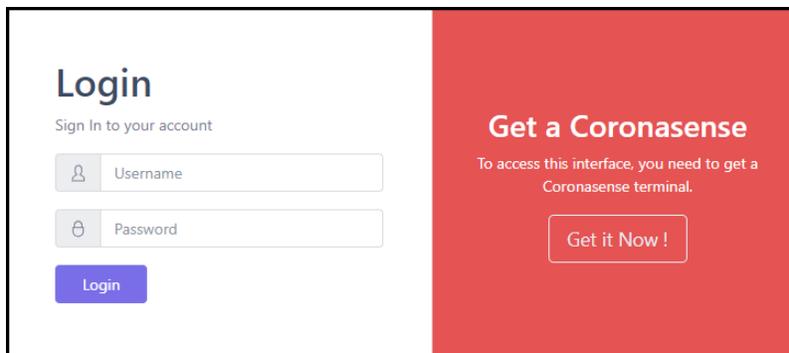
4.1. Administrator Login

The administration interface is available at the following URL:

<https://www.coronasense.ch/admin>.

A Username and initial Password will be communicated in email when a license is purchased.

Enter your Username and Password then click **Login**.



4.2. Dashboard

The Dashboard is displayed once a user is successfully logged in.

The navigation menu can be found on the left-hand side of the Dashboard (Figure 1). Click on any of these menu items to navigate to the specific part of the application. At the bottom of the navigation menu, click the < to collapse the menu making the content area of the Dashboard larger. Once the navigation menu is collapsed, icons are still available for navigating to different pages of the application (Figure 2). Click > to expand the menu.

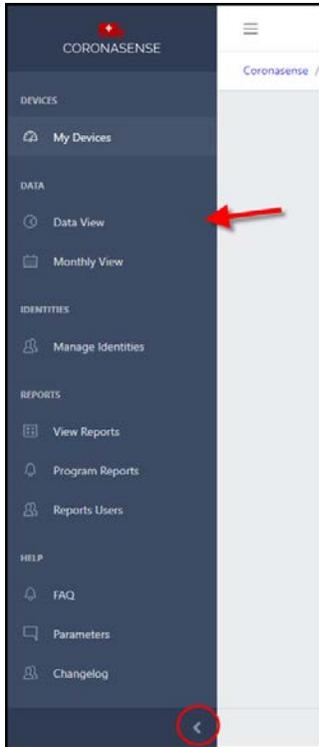


Figure 1: Full Navigation Menu Menu



Figure 2: Collapsed



Figure 3: Hidden Navigation

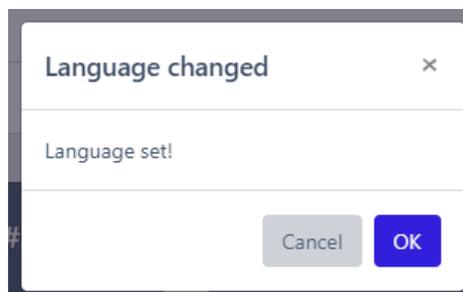
Navigation Menu

Click the  icon on the left side of the Dashboard to hide the navigation menu. At the top of the Dashboard you can change the language of the application interface from/to English and French and update your account profile.



4.2.1. Change Language

Click on either **EN** or **FR** to change the language of the application interface. A window will display to confirm your selection. Click **OK** to confirm or **Cancel** to keep the current language setting.

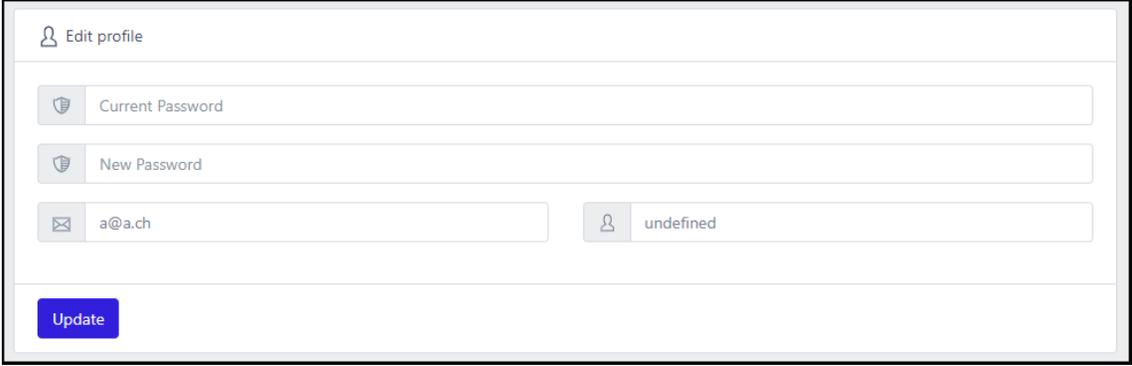


4.2.2. User Profile

The User Profile is where your administrator password can be reset and your email address and phone number can be updated. Click  to open the profile settings page.

To reset your password, enter your **Current Password** and then a **New Password**. You can also enter a new email address or phone number.

Click **Update** to save the changed information.



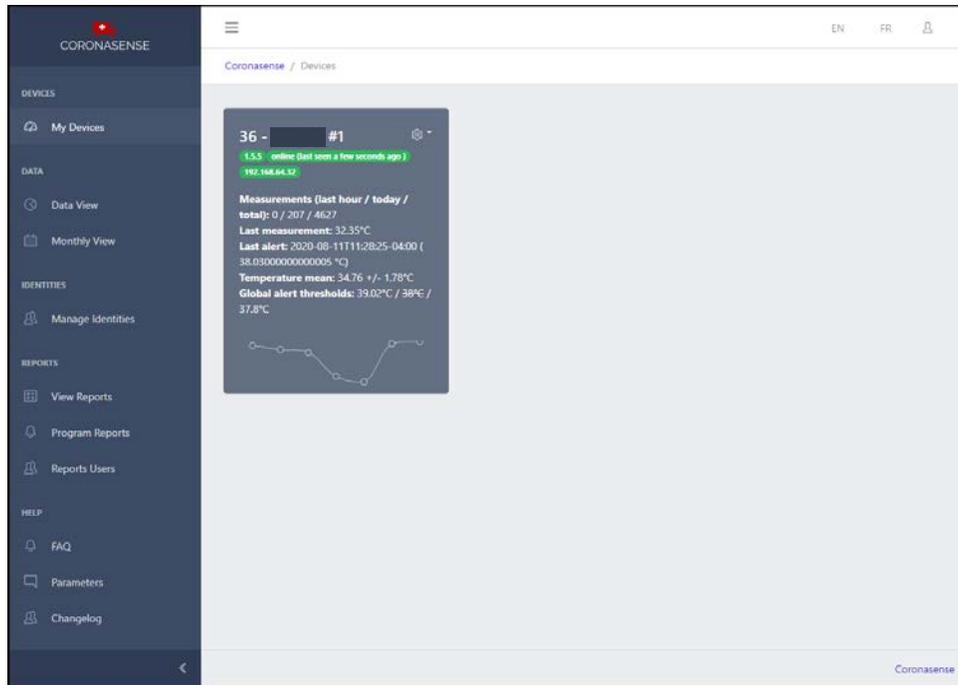
The screenshot shows a web form titled "Edit profile". At the top left, there is a user icon and the text "Edit profile". Below this, there are four input fields. The first two are for passwords, labeled "Current Password" and "New Password", each with a shield icon on the left. The third field is for an email address, labeled "a@a.ch", with an envelope icon on the left. The fourth field is for a phone number, labeled "undefined", with a person icon on the left. At the bottom left of the form, there is a blue button labeled "Update".

4.3. My Devices

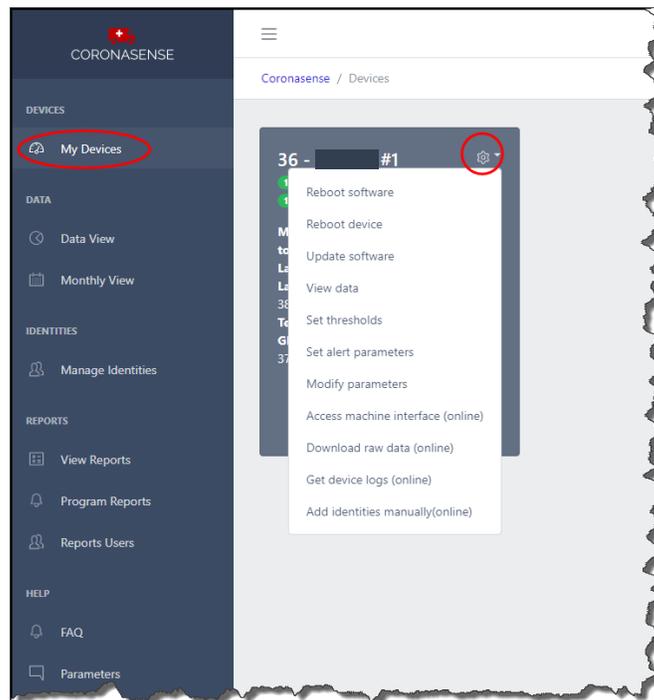
The My Devices page will be selected immediately upon login.

My Devices shows all of your connected devices along with a summary of data for each device, including:

- the number of measurements taken in the last hour/day/total
- the last measurement taken
- the last alert information
- the mean temperature
- the global alert thresholds
- the IP address
- the MAC address



Each device has settings that can be remotely controlled. Click on the gear shaped icon  to open a menu of options to control the device. Each device has its own settings.



Reboot software

Selecting Reboot software will automatically restart the software on the device. This will take approximately 20 seconds. The device will make an audible beep.

Reboot device

Selecting **Reboot device** will automatically send a command to the device to reboot. This will take approximately 40 seconds. The device will make an audible beep.

Update software

Selecting Update software will automatically update the software on the device. This will take approximately 30 seconds. The device will reboot after the update.

View data

Selecting **View Data** opens the Data View page. This page displays the Data Analytics Dashboard chart and Data analysis table.

Set Thresholds

There are 3 separate thresholds that can be set to determine when a temperature is out of the desired range. They can work separately or together. If any of the thresholds are set to work at the same time, the lowest temperature threshold will have priority over the others.

Since thresholds are configured to trigger based on the time of the day, you may want to set them to accommodate changing outdoor conditions based on the time of day. For example, you may want to create one for the morning, one for the afternoon hours and maybe even a different one for nighttime hours.

Change thresholds for device 28

Enable threshold 1
-2.5
negative = standard deviation, positive = degrees Celsius

Start (h) Start (m) End (h) End (m)
0 0 23 59

Enable threshold 2
38
negative = standard deviation, positive = degrees Celsius

Start (h) Start (m) End (h) End (m)
0 0 23 59

Enable threshold 3
39
negative = standard deviation, positive = degrees Celsius

Start (h) Start (m) End (h) End (m)
0 0 23 59

Apply changes

First, select the **Enable threshold** checkbox to enable a threshold.

Next, set the **threshold value**. Each threshold is configured by defining the value to trigger the alert. The threshold can be defined as a standard deviation or as degrees (°C). Enter a negative number to use standard deviation. Enter a positive number to represent degrees Celsius.

Using the standard deviation method, a person's recorded temperature can be compared against their own previously collected temperature data (identified by their RFID badge) or compare to the whole population of data collected. A good reason to use a standard deviation threshold is to be able to compensate for the inherent variability of human skin and physiologies.

As an example, if -2.5 is the defined threshold value (standard deviation) and the user has past temperature readings of 36.0 +/- 0.5 on average, the threshold will alert at $36.0 + (2.5 * 0.5) = 37.25$ or above. This threshold calculation is used for each registered user.

When using a Degrees as the threshold number, the threshold will alert when a user's temperature meets or exceeds the specified degrees.

As previously mentioned, each threshold can work independently or together with each other. This is based on the time of day specified for each. Enter a **Start (h/m)** and **End (h/m)** which determines when each one is evaluated.

Set Alerts

When a temperature is detected that does not meet the defined thresholds, an alert can be sent to notify the administrator or person in charge. This is where the alert notifications are configured. Each device can have its own alert settings.

Change alerts for device 28

Enable email alert Send email only if badge valid

Email address(es)
more than one email address with comma separator (a@a.ch,b@b.ch)

Enable SMS alert Send SMS only if badge valid

Phone number
in format 00417XXXXXXX

Enable sound alert

Message and alert display time
In seconds (default 2.2)

Show temperature after measurement

Enable email alert

Select the checkbox **Enable SMS alert** to send an alert via text message. Enter the email address(es) to send the alert to. Multiple email addresses can be specified by separating them with a comma.

Example:

Select the checkbox **Send email only if badge valid** to send the alert only if the presented badge is valid.

Enable SMS alert

Select the checkbox **Enable SMS alert** to send an alert via text message. Enter the phone number to send the alert to.

Select the checkbox **Send SMS only if badge valid** to send the alert only if the presented badge is valid.

Enable sound alert

This setting determines how long a message will display on the device's display as well as the length of the beep alert on the device. Enter the number as a number of seconds.

Show temperature after measurement

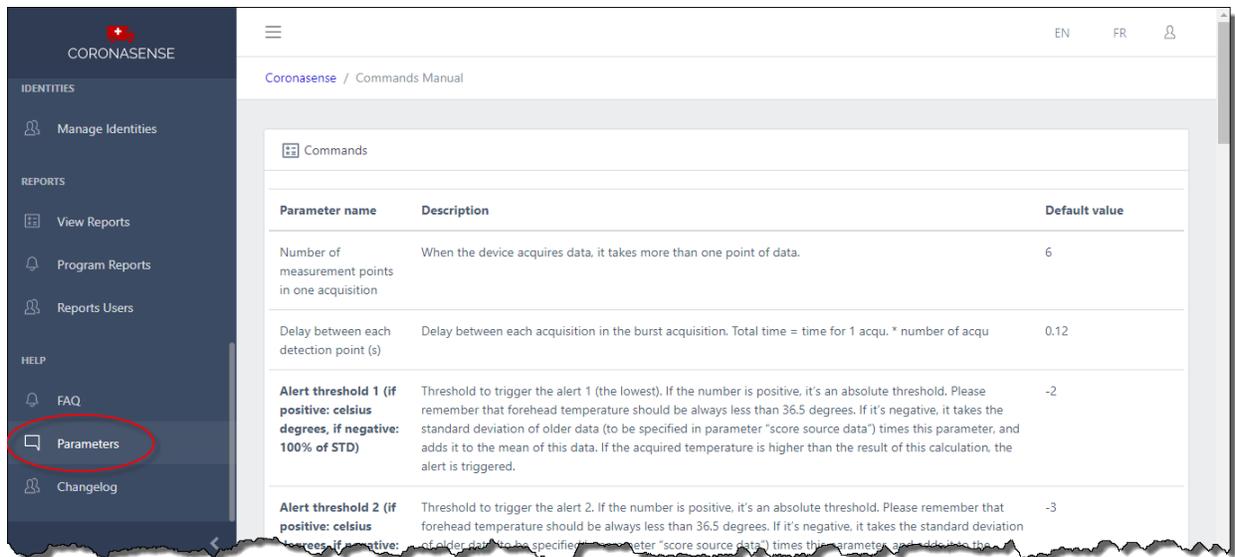
Select this checkbox to display the user's temperature measurement on the device following each reading.

Modify Parameters

Settings on devices can be updated by sending commands directly to the device. Some settings are sent to the device by a setting in the user interface. However, there are many other settings that can be sent to a device where there is no corresponding UI.

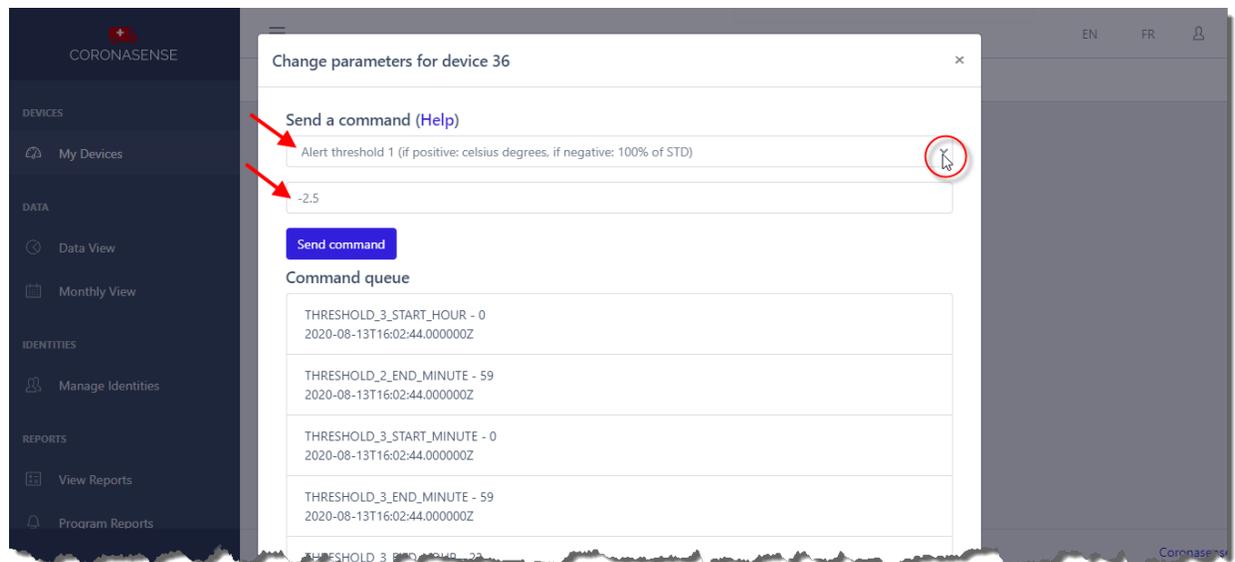
Once a command is sent it to a device, it will take about 30 seconds to update. The device will respond with a beep.

For a full list of available commands, please refer to the [Command Reference](#) section at the end of this manual.



To send a command, select the command from the **Send a command** drop-down list. Some commands require an additional parameter to be entered.

Some parameters require certain values or have formatting requirements. For example, commands that are used to turn a feature on and off, require a value of 1 or 0, respectively. Other commands, such as **Add Wifi**, requires a special format of `ssid,password`. Be sure you are using the format indicated for parameters.

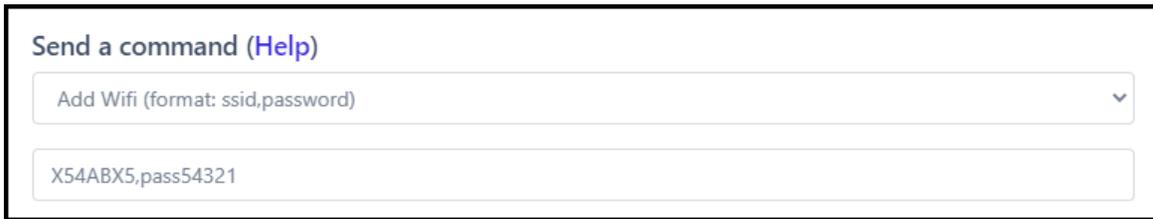


When ready, click **Send command**.

Add Wifi

One example of using the Send Command interface is to add a new Wifi network. In this case, select **Add Wifi (format: ssid,password)** from the drop-down list. Note that for this command,

a specific format is required for the parameters. As shown in the command line, there should be no spaces or extraneous characters before or after the comma delimiter.



The screenshot shows a web interface for sending commands. At the top, there is a link 'Send a command (Help)'. Below it is a dropdown menu with the text 'Add Wifi (format: ssid,password)'. Underneath the dropdown is a text input field containing the command 'X54ABX5,pass54321'.

Online options

The following options are available if the device is online and on the same local network as the administrator software.

Access machine interface (online)

Access the configuration page of the device.

Download raw data (online)

Download measurement data from the device in CSV format.

Get device logs (online)

Print the device's debug logs.

Add identities manually (online)

Select this option to register RFID badges or cards:

1. Click **Add Identities manually**.
2. Present the badge on the RFID reader.
3. The badge ID will display on the device.
4. Enter the Name, Surname, Group and Remarks then submit the form. The registration information will be shared to all other devices linked to your account.

4.4. Data View

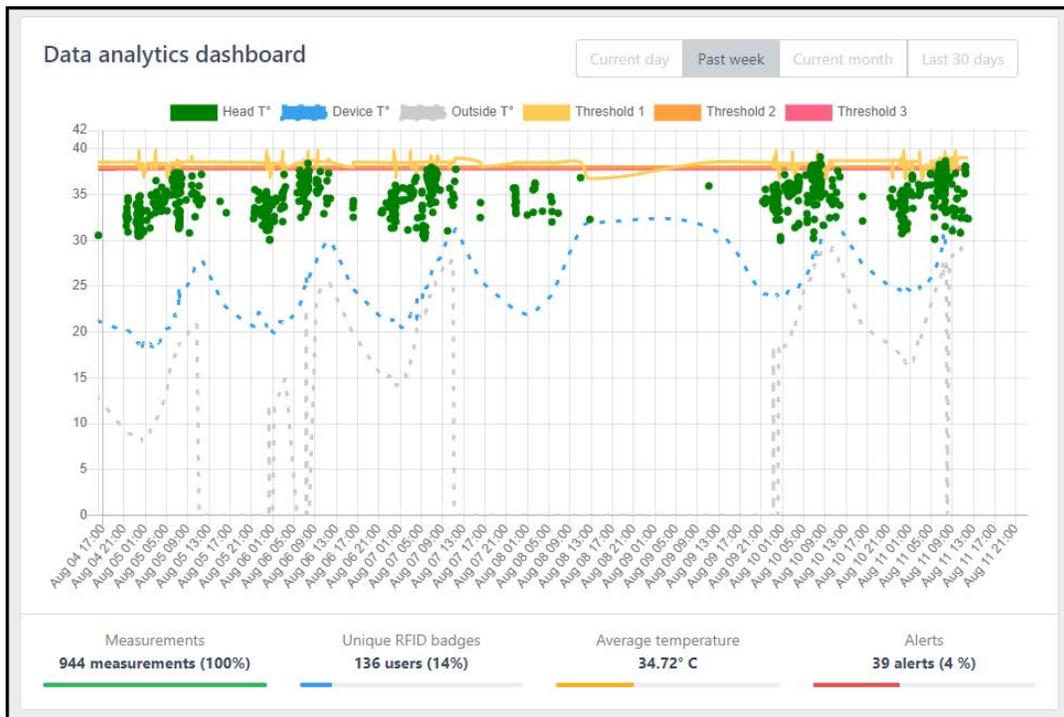
Data Analytics Dashboard

The Data Analytics Dashboard chart displays a graphical representation of daily temperatures and thresholds set. The date is shown across the horizontal axis and temperature on the vertical axis. Hovering the mouse over any data point will open a summary of data for the specific date. Use the scrolling mouse wheel to expand or contract the number of points displayed.

The chart can be filtered by selecting from the pre-defined filters: Current day, Past week, Current month, Last 30 days. A summary bar is displayed at the bottom of the chart.

Chart Legend:

- Head T° Represents each users temperature
- Device T° Represents the device temperature
- Outside T° Represents the outside temperature
- Threshold 1 Threshold 1 value (value will change if based on standard deviation)
- Threshold 2 Threshold 2 value (value will change if based on standard deviation)
- Threshold 3 Threshold 2 value (value will change if based on standard deviation)



Data analysis and filters

The Data analysis table displays temperature data taken each day for each individual user. The data in this table can be filtered by entering different values just below the column headers. Any filters entered in this table will also be reflected in the Data analytics chart above.

Data analysis & filters

Data		Tempera...		Thresholds				
Date	Alert	RFID	Name	Surname	T° max	Thd 1	Thd 2	Thd 3
2020/08/11 11:59:35	0	0			32.35	39.01 (1)	38 (0)	37.8 (0)
2020/08/11 11:33:43	0	0			32.43	39.01 (1)	38 (0)	37.8 (0)
2020/08/11 11:29:59	0	80661FB2614604	Rita		37.25	39.01 (1)	38 (0)	37.8 (0)
2020/08/11 11:28:44	0	80608E2A223504		10356	37.55	39.01 (1)	38 (0)	37.8 (0)
2020/08/11 11:28:25	3	80608E2A223504		10356	38.03	39.01 (1)	38 (0)	37.8 (0)
2020/08/11 11:28:13	3	80608E2A223504		10356	38.09	39.01 (1)	38 (0)	37.8 (0)
2020/08/11 11:11:45	0	805D021A0D3404	David		35.19	39.01 (1)	38 (0)	37.8 (0)
2020/08/11 11:03:14	0	80661FCA1B3B04		11048	35.09	39.01 (1)	38 (0)	37.8 (0)
2020/08/11 10:49:59	0	0			33.23	39.01 (1)	38 (0)	37.8 (0)
2020/08/11 10:39:46	0	80608E2A255504	Manu		32.45	39.01 (1)	38 (0)	37.8 (0)
2020/08/11 07:39:20	0	80608E2A114E04	Gisela		31.51	38.9 (1)	38 (0)	37.8 (0)
2020/08/11 07:39:01	3	80608E32683304	Ana Sofia		37.85	38.9 (1)	38 (0)	37.8 (0)
2020/08/11 07:38:40	3	80608E32683304	Ana Sofia		37.91	38.9 (1)	38 (0)	37.8 (0)

Page Size 50 First Prev 1 2 3 4 5 Next Last

Download shown data (CSV) Download shown data (XLSX)

The following is a definition of all columns for this table. Please note that at times some columns may not be visible due to the screen size.

Columns:

Date	Measurement date and time (local time zone)
Alert	Alert level. 0 – Temperature ok, 1, 2, or 3 if the temperature reaches an alert threshold. The number indicates which alert threshold has been hit.
RFID	Unique identifier of the RFID card or badge
Name	Name of user as defined for the identity
Surname	Surname of user as defined for the identity
T° max	The maximum temperature during the measurement. This temperature will act as a score and be compared to the defined thresholds.
T°	The average temperature during the measurement.
T° std	The standard deviation of the temperature during the measurement.
Thd 1	Threshold 1 as configured in the Set thresholds page
Thd 2	Threshold 2 as configured in the Set thresholds page
Thd 3	Threshold 3 as configured in the Set thresholds page
T° device	Device internal temperature.
Outside T°	Local temperature gathered from https://openweathermap.org/
Dist. (mm)	Head-sensor distance
Device ID	Unique Coronasense serial number. Multiple devices can be filtered using a comma separator (e.g. 40,41,42)
IP	IP of the device. If 127.0.0.1, the device was not connected to the network at the time of the measurement.

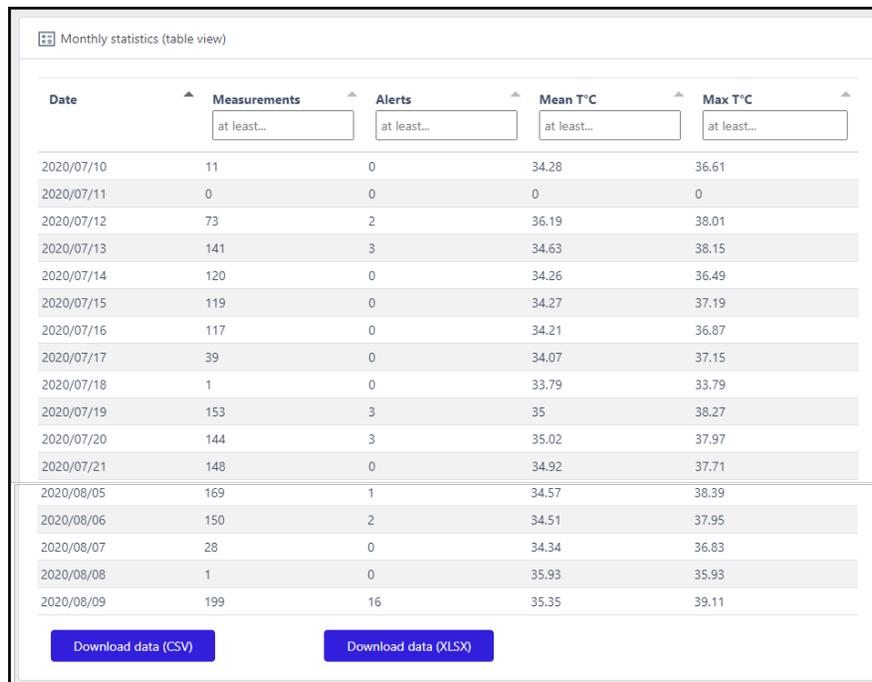
At the bottom of the table, click **Download shown data (CSV)** or **Download shown data (XLSX)** to download the filtered data to the file format of your choice.

4.5. Monthly View

Monthly statistics (table view)

The monthly statistics table displays a summary of temperatures taken per day. It displays the number of Measurements taken per day, the number of Alerts per day, and the Mean and Max temperatures per day.

The data in this table can be filtered by entering different values just below the column headers.

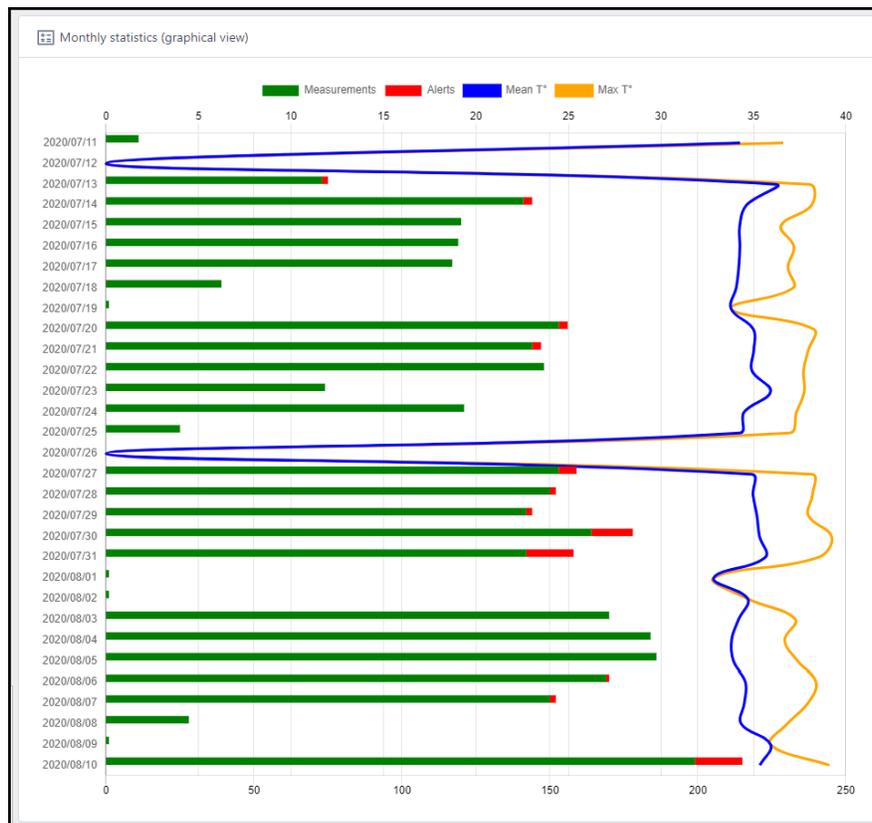


Date	Measurements	Alerts	Mean T°C	Max T°C
2020/07/10	11	0	34.28	36.61
2020/07/11	0	0	0	0
2020/07/12	73	2	36.19	38.01
2020/07/13	141	3	34.63	38.15
2020/07/14	120	0	34.26	36.49
2020/07/15	119	0	34.27	37.19
2020/07/16	117	0	34.21	36.87
2020/07/17	39	0	34.07	37.15
2020/07/18	1	0	33.79	33.79
2020/07/19	153	3	35	38.27
2020/07/20	144	3	35.02	37.97
2020/07/21	148	0	34.92	37.71
2020/08/05	169	1	34.57	38.39
2020/08/06	150	2	34.51	37.95
2020/08/07	28	0	34.34	36.83
2020/08/08	1	0	35.93	35.93
2020/08/09	199	16	35.35	39.11

At the bottom of the table, click **Download data (CSV)** or **Download data (XLSX)** to download the filtered data to the file format of your choice.

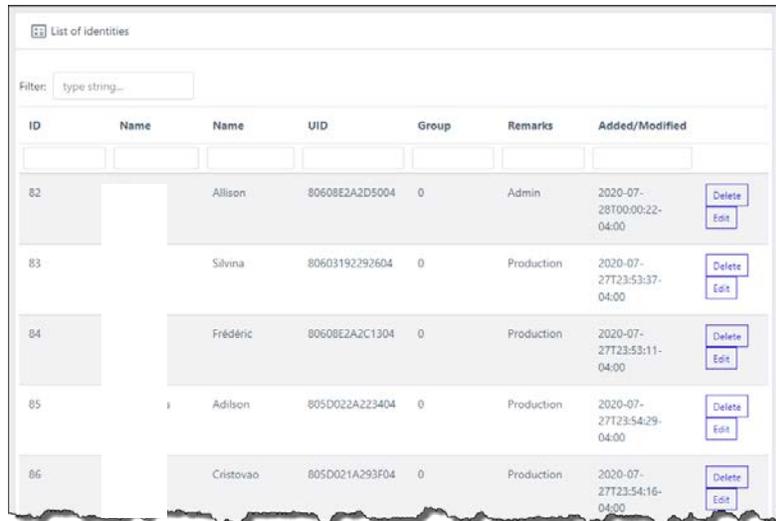
Monthly statistics (graphical view)

Below the Monthly statistics table is a graphical representation of the data.



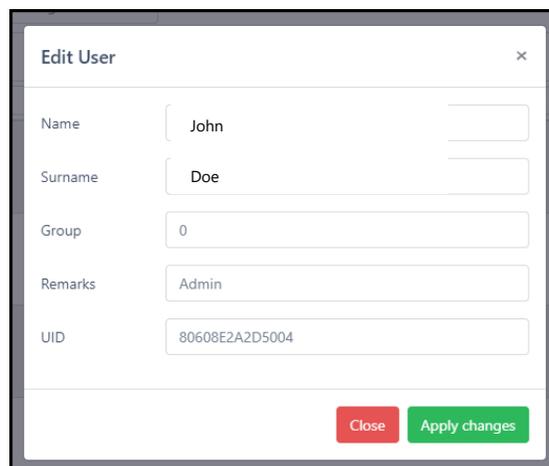
4.6. Manage Identities

Identities are the specific users whose temperatures will be recorded. The Manage Identities page is where you can edit or remove a specific user. By default, the complete list of users is initially displayed. However, the list can be filtered by entering values under the column headers. Filtering the list can help you find a user faster if there is a large set of users.



ID	Name	Name	UID	Group	Remarks	Added/Modified	
82		Allison	80608E2A2D5004	0	Admin	2020-07-28T00:00:22-04:00	Delete Edit
83		Silvina	80603192292604	0	Production	2020-07-27T23:53:37-04:00	Delete Edit
84		Frédéric	80608E2A2C1304	0	Production	2020-07-27T23:53:11-04:00	Delete Edit
85		Adilson	805D022A223404	0	Production	2020-07-27T23:54:29-04:00	Delete Edit
86		Cristovao	805D021A293F04	0	Production	2020-07-27T23:54:16-04:00	Delete Edit

Click Edit to update the user's Name, Group, Remarks or UID. The group must be a number from 0 to 999. The remarks can be plain text.



Edit User [X]

Name:

Surname:

Group:

Remarks:

UID:

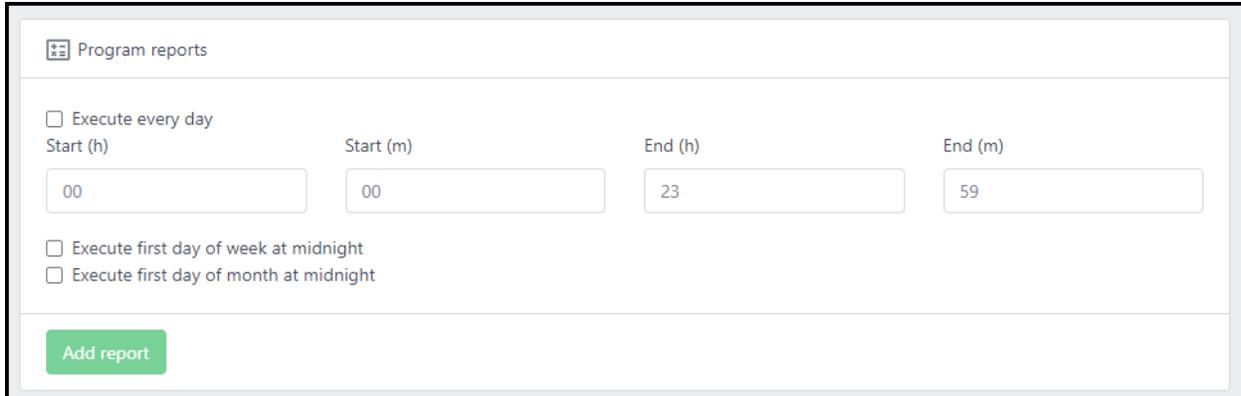
Click **Apply changes** to save the updated data.

4.7. View Reports

Reports can be used to review the data collected as users get their temperatures taken by the device. You can customize when reports are run based on a time range and whether to run it every day, weekly or monthly. See [Program Reports](#) to create the reports.

List of reports

Reports are automatically emailed immediately after it is created. To view a previously generated report, select a report from the drop-down list.



The screenshot shows a web form titled "Program reports". It contains the following elements:

- A checkbox labeled "Execute every day".
- Four input fields for time: "Start (h)" with value "00", "Start (m)" with value "00", "End (h)" with value "23", and "End (m)" with value "59".
- Two more checkboxes: "Execute first day of week at midnight" and "Execute first day of month at midnight".
- A green button labeled "Add report" at the bottom left.

To run a report daily, select the **Execute every day** checkbox. The daily report contains the activity history for only the time span identified. Enter the Start and End time of day the report should contain.

Click **Execute first day of week at midnight** to run a report for all activity each week.

Click **Execute first day of month at midnight** to run a report for all activity each month.

Once all report parameters are defined, click **Add report**.

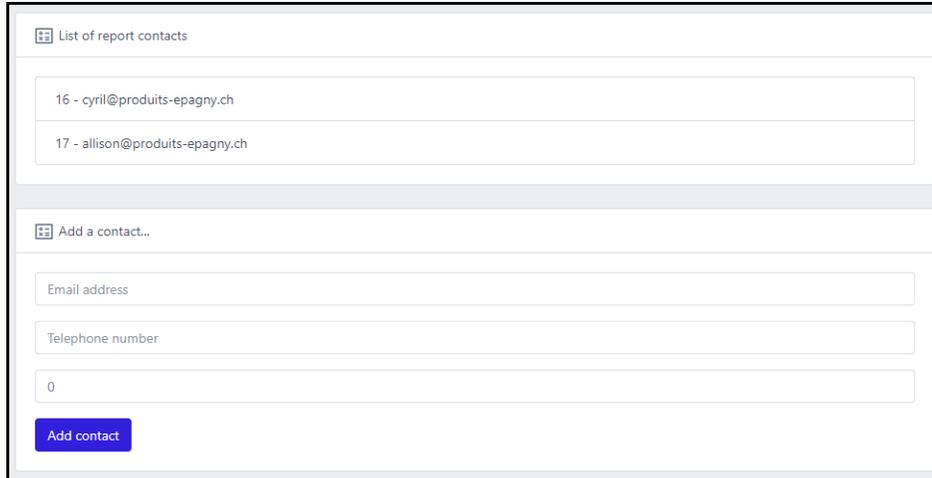
Reports contain the following data:

- Measurement summary
- Alert details
- List of users whose badges were validated

4.9. Reports Users

The Reports Users page lists the users who have been given permission to receive reports. The top of the page lists all current report users.

To add a new report user, enter their email address, phone number and ID, then click **Add contact**. They will be added to the list above.



The screenshot shows a web interface titled "List of report contacts". It contains a table with two rows of contact information:

16 - cyril@produits-epagny.ch
17 - allison@produits-epagny.ch

Below the table is a section titled "Add a contact..." with three input fields: "Email address", "Telephone number", and a field containing "0". A blue "Add contact" button is located at the bottom of this section.

To remove a report user from the list, first select them by clicking on their name. The row will be highlighted.



The screenshot shows the same "List of report contacts" interface, but the first row (ID 16) is highlighted in blue. A blue "Delete 16" button is now visible below the table.

Click **Delete**.

4.10. FAQ

The FAQ page displays the user guide.

4.11. Parameters

The Parameters page displays a comprehensive guide of all commands that can be sent to the device. Commands can be sent to the device from the [Modify parameters](#) option for each device.

4.12. Changelog

The Changelog page displays a complete list of updates to the application.

5. Technical information

5.1. Network

By default, the device uses DHCP to retrieve an IP address from the DHCP server. Please configure your router to assign a fixed address using the MAC address shown in the **My Devices** page.

5.2. Relays

The relay can handle a 230V 10A current.

Powercon connector:

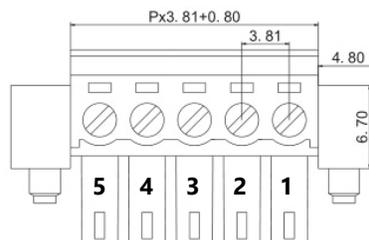
Coronasense 2 with a relay is equipped with a Powercon connector. The wiring is the following:



N	GND	L
NC	COM	NO

5 pin connector:

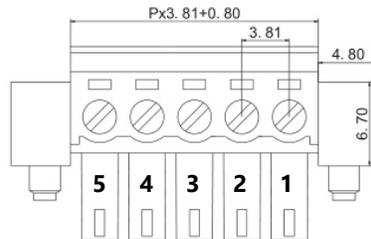
Coronasense 3 PRO is equipped with a 5-pin Euroblock connector. The wiring is the following:



1	2	3	4	5
NC	COM	NO	GPIO1	GND

5.3. GPIO

Coronasense 3 PRO is equipped with two GPIOs (3.3V).



1	2	3	4	5
DEBUG	DEBUG	GPIO2	GPIO1	GND

By default, the GPIO1 is set as an output, with a high-level signal when an alert is triggered. By default, GPIO2 is disabled. Stay tuned for more information about GPIOs in a next release.

6. Command Reference

The Command Reference is a full list of all available commands that can be sent to the device. Commands can be sent to a device from the Modify Parameters page.

Command	Description	Default Parameter	Available in UI
Reboot	Restart the device software.		Reboot software
Update Software	Automatically download the newest software version. The device will restart after the update.		Update software
Reset all measurements	Delete all recorded data points.		
Reset all parameters	Reset all parameters to default state.		
Normal mode	Set to normal mode.		
Display temperature mode	Set to Thermometer mode. Display will always illuminate and will temporarily show debug information after each measurement is taken.		
Direct measurement mode	Set to Debug mode. This command will cause the device to temporarily show temperature information for the calibration process.		
Send debug mode by email	Sends the debug log to the developer for debugging.		

Load saves	Load all old saves in case of data corruption.		
Update via HTTP	If the SSH port is blocked by a firewall, use this update method instead.		
Install Clock	If NTP servers are blocked by a firewall, synchronize the clock using Google's servers.		
Disable IPV6	If there is issue with Wi-Fi and IPV6, disable IPV6 in the system.		
Reboot machine (system)	Physically restart the device by a power cycle.		Reboot device
Install services	Install auto-update services in the background.		
Add Wifi (format ssid,password)	Add a new Wifi ssid-username. The format is ssid,password separated with a comma.		Add Wifi
Number of measurement points in one acquisition	When the device initially acquires data, more than one point of data is necessary.		
Delay between each detection point (s)	Delay between each acquisition in the initial data acquisition. Total time = time for 1 acquisition * number of acquisition	0.12	
Alert threshold 1 (if positive: Celsius degrees, if negative: 100% of STD)	<p>Threshold to trigger the alert 1 (the lowest).</p> <p>If the number is positive, it's an absolute threshold. Please remember that forehead temperature should be always less than 36.5 degrees.</p> <p>If the number is negative, it takes the standard deviation of older data (to be specified in parameter "score source data") times this parameter and adds it to the mean of this data. If the acquired temperature is higher than the result of this calculation, the alert is triggered.</p>	-2	Set Thresholds
Alert threshold 2 (if positive: Celsius degrees, if negative: 100% of STD)	<p>Threshold to trigger the alert 2 (the lowest).</p> <p>If the number is positive, it's an absolute threshold. Please remember that forehead temperature should be always less than 36.5 degrees.</p> <p>If the number is negative, it takes the standard deviation of older data (to be specified in parameter "score source data") times this parameter and adds it to the mean of this data. If the acquired temperature is higher than the result of this calculation, the alert is triggered.</p>	-3	Set Thresholds

Alert threshold 3 (if positive: Celsius degrees, if negative: 100% of STD)	<p>Threshold to trigger the alert 3 (the lowest).</p> <p>If the number is positive, it's an absolute threshold. Please remember that forehead temperature should be always less than 36.5 degrees.</p> <p>If the number is negative, it takes the standard deviation of older data (to be specified in parameter "score source data") times this parameter and adds it to the mean of this data. If the acquired temperature is higher than the result of this calculation, the alert is triggered.</p>	37	Set Thresholds
Number of initial data points needed to compute statistics	Set the number of data points needed before starting to trigger alerts.	50	
Number of cycle detections for head recognition	Number of acquisitions needed before the head measurement collection will start.	2	
Delay between measurements for head recognition	Time between each measurement.	0.35	
Temperature threshold for head recognition	<p>This parameter regulates the distance between the head and sensor.</p> <p>If the distance is too high, the detected temperature will be too small and not trigger the acquisition.</p> <p>If the value is negative, the threshold is "Ambient temperature - value" (for example, if value=-3 and ambient temperature is 28, the threshold is 31).</p>	33	
Delete all at next reboot (0/1)	Delete all data points at next reboot.	0	
Delay between saves (s)	The amount of time between saving data to file (s).	300	
Delay for statistics recording (s)	Statistics upload to main interface delay.	60	
Delay for command execution (s)	Command execution poll delay.	10	
Email address (for multiple email)	Email address for alerts. Multiple emails can be configured by putting a comma (,) between them.		Set Alerts

addresses, comma separator)			
Enable email alert (0/1)	Send an email when an alert is triggered.	0	Set Alerts
Email alert level (0,1,2,3)	Minimal threshold reached to trigger email alert.	1	Set Alerts
API key mail	Key used to send email alerts.	Ck38Bir5T 2PjKp76Y yq4	
API key SMS	SMS.to key used to send SMS alerts.		
SMS alert level (0,1,2,3)	Minimal threshold reached to trigger SMS alert.	1	Set Alerts
Enable SMS alert (0/1)	Send a SMS when an alert is triggered.	0	Set Alerts
Delay between two RFID detections	Delay between RFID detections. Used to avoid two detections of the same card.	0.5	
Score source data (0 all data, 1 day, 2 last 24h, 3 same hour each day, -X last X hours)	Data source for the alert threshold. 0: all data is taken into account. 1: data from the same day is taken into account. 2: data from the last 24h are taken into account. 3: the data from the same past hour but last day (e.g. Tuesday 10h20-11h20, etc... If the data is polled Wednesday at 11h20. Takes into account vacations (max 14 days) and weekends. Negative number: Data is taken from the past X hours.	0	
Time of message display (0/1)	Time to display the message on the screen.	3	
Enable special alert sound (0/1)	Sound effect if the alert is triggered.	1	Set Alerts
SMS phone number	Phone number for SMS alert.		Set Alerts
Anonymize RFID data (0/1)	Permanently encrypt (not reversible) RFID data RFID badges bring additional privacy issues. In our devices, the RFID badges can be used, not to identify a sick person, but to improve tracking over time by comparing previous measurement data for the same person. We can make the badge's uses anonymous by applying a one-sided 256-bit encryption algorithm that makes it possible to compare two identities. However, it is impossible when searching the database to retrieve the original profile.	1	

Minimum data points for RFID statistics	Define the number of points needed for the same RFID user to use these statistics. If it's lower than this threshold, data from "Score source data" is used.	3	
Text line 1	Invitation text line 1.		
Text line 2	Invitation text line 2.		
Seconds for relay ON mode	Opens the relay for X seconds.	0.1	
Language (0 French, 1 English)	Changes the language of the messages.	0	
Activate permanent temperature display (0/1)	Display temperature in degrees after the measurement.		
Maximal distance for laser detection range (in mm)	Minimum distance between the head to the objective of the device for the measurement to occur.		
Send email alerts only when RFID is present	Send an alert (email) only when a measurement took place after the validation of an RFID badge. Otherwise the alert is discarded.		
Send SMS alerts only when RFID is present	Send an alert (SMS) only when a measurement took place after the validation of an RFID badge. Otherwise the alert is discarded.		
Meteo: API key			
Meteo: enable (0/1)	Enable weather collection from the Internet.		
Meteo: city	City for weather collection		
Body temperature offset	Offset between the head temperature and the body temperature. Should be between 1.5 and 2.5.		
Alert 1 – text line 1	Text shown after every alerts.		
Alert 1 – text line 1	Text shown after alert.		
Alert 2 – text line 1	Text shown after alert.		
Alert 2 – text line 1	Text shown after alert.		
Alert 3 – text line 1	Text shown after alert.		
Alert 3 – text line 1	Text shown after alert.		
Enable alert 1	Turn on alert 1.		Set Alerts
Enable alert 2	Turn on alert 2.		Set Alerts
Enable alert 3	Turn on alert 3.		Set Alerts
Maximum number of data points in memory	Maximum number of data points to keep in memory. Any data over this limit is deleted. The device has a capacity of env. 5 mio points.		
RFID badge is compulsory for measurement (0,1)	Measurement will not be taken without a valid RFID badge.		

TTS voice synthesizer	Enable voice commands (only for polyphonic speaker models).		
Threshold 1 start time (h).	Threshold 1 start time (h).		Set Thresholds
Threshold 1 end time (h).	Threshold 1 end time (h).		Set Thresholds
Threshold 1 start time (m).	Threshold 1 start time (m).		Set Thresholds
Threshold 1 end time (m).	Threshold 1 end time (m).		Set Thresholds
Threshold 2 start time (h).	Threshold 2 start time (h).		Set Thresholds
Threshold 2 end time (h).	Threshold 2 end time (h).		Set Thresholds
Threshold 2 start time (m).	Threshold 2 start time (m).		Set Thresholds
Threshold 2 end time (m).	Threshold 2 end time (m).		Set Thresholds
Threshold 3 start time (h).	Threshold 3 start time (h).		Set Thresholds
Threshold 3 end time (h).	Threshold 3 end time (h).		Set Thresholds
Threshold 3 start time (m).	Threshold 3 start time (m).		Set Thresholds
Threshold 3 end time (m).	Threshold 3 end time (m).		Set Thresholds
Enable Relay	Enable the relay. 0: disabled, 1: relay triggered when temperature is ok. -1: relay triggered when an alert is triggered (for lights, for example).		

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