

# LabCollector



## User Guide LabCollector Data Logger

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[www.agilebio.com](http://www.agilebio.com) & [www.labcollector.com](http://www.labcollector.com)



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## 1- INTRODUCTION

**T**hank you for choosing one of AgileBio's solutions for the management of your lab.

**Data Logger Add-on** for LabCollector LIMS for real time monitoring of equipment metrics like temperature, humidity, CO<sub>2</sub> and more.

**Data Logger add-on** allows lab staff to setup expected parameters for each equipment (expected values and tolerance), to define SMS (using our NET/GSM logger or SMS Gateway option) and email alerts.

Finally, each user of LabCollector's **Data Logger** can easily find information about equipment metrics thanks to graphical display and retrieve data for a defined period (quality control). Alerts history is saved to meet quality control standards.

Available metrics are temperature values (even extreme low or high), humidity, CO<sub>2</sub> and much more (using analogic transmitters).

## 2- INSTALLATION

You can get **Data Logger Add-on** simply by downloading it from [www.labcollector.com](http://www.labcollector.com). LabCollector software has to be installed first as it contains the framework. LabCollector support documents for installation are available on our website. **Data Logger Add-on** can be installed on any operating system (Windows, MacOS X and Linux).

Unzip and paste **Data Logger Add-on** Folder in the extra modules folder. For Windows it would look like:

```
C:\Programs\AgileBio\LabCollector\www\Extra_modules\lc_logger
```

Open LabCollector, the **Data Logger Add-on** module is now activated. Click on the module to finish the installation.

The Data Logger add-on requires tasks configuration in order to recover metrics over time in an automated way. It supports various types of loggers. Each logger has a specific plugin that needs to be installed. The plugin folder is located inside the folder “loggers\_plugin”. Get the correct plugin from AgileBio that matches your logger equipment. Different types of logger hardware can be used together.

After the Data Logger installation, it’s necessary to copy the “autoload” file, located in the selected logger’s Plugin Folder, to the “UserFiles” folder. This “autoload” file must be posteriorly added to the LabCollector tasks (Admin>>Setup>>Tasks). The task frequency can be tuned depending on the accuracy wanted (we recommend not less than 5min intervals).

```
Ex: lclogger_autoload_ow.php
```

Besides the “autoload” file, the Data Logger requires another file to be added to the tasks. The alerts “monitor” file, located in the folder “loggers\_plugin”. This file too needs to be copied to the “UserFiles” folder and added to the LabCollector tasks. The task frequency can be tuned depending on the accuracy wanted (we recommend not less than 15 min intervals). The task frequency will be used to set the time lag before an alert is really sent.

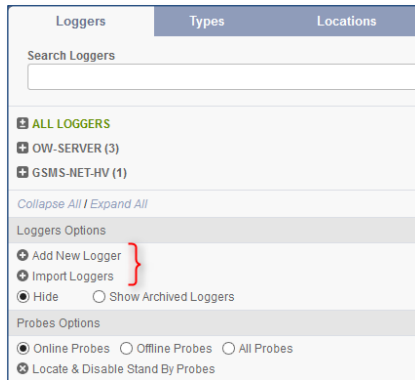
Both files must be correctly configured on tasks in order to Data Logger function properly. Tasks are generated/managed for both Linux and Windows.

## 3- DATA LOGGER SETTING

When starting **Data Logger** usage, the first steps are to setup loggers and probes.

### 3-1. Loggers setting

Go on **Setup** tab on the home page to manage your logger.



Add a new hardware logger using *Add New Logger* link. In the main page section, you have to select your logger type in the list, depending of the plugin installed, and then fill in IP address and Port

- [UWTC-REC3](#), port: 2000 (by default)
- [GSMS-NET-HV](#): as defined on hardware setup.
- [OW-SERVER](#), port: 80 (by default)
- [RMONI-TCP](#), port: 6001 (by default)

We offer a service allowing the integration of other type of logger to **Data Logger Add-on**. Please ask to [sales@agilebio.com](mailto:sales@agilebio.com) or [sales.us@agilebio.com](mailto:sales.us@agilebio.com).

For OW-SERVER, you can also use the link *Import Loggers*. In the main page section, select your logger type in the list, and upload a CSV file with the format: Logger Name, Logger IP or MAC Address, Logger Port (if applicable), Logger Location

For GSMS-NET-HV logger, network configuration requires more information. Details are recovered from logger setup software.

Once your logger installed, you can edit their setup using the [+] following the logger name. You can also archive your logger using the link *Archive Logger*.

F500100000228F7E_4	temperature, Humidity, Barometric Pressure and Lig	No Specific Equipment
F500100000228F7E_5	Temperature, Humidity, Barometric Pressure and Lig	No Specific Equipment
F500100000228F7E_7	Temperature, Humidity, Barometric Pressure and Lig	No Specific Equipment
F500100000228F7E_8	Temperature, Humidity, Barometric Pressure and Lig	No Specific Equipment

**Logger 4 (5 Probes) [-]** ➔

Name  IP Address  Port  Location

Advanced Settings

Logger ID  Response Ip  Response Port  Logger Mode  Listen  Request

Recovery  Recovery Port

➔ [Archive Logger](#)

A00	Humidity Probe A00	No Specific Equipment
A01	Probe A01	Room1 >> pt100
A08	Probe A08	Room1 >> etagère

### 3-1-1. By tasks

To configure LabCollector tasks, go to **ADMIN > Setup > Proxy, Tasks Scheduler and Email**.

Add a new task filling the form: task name, script file name and task frequency. Don't forget to use buttons: **Add This Task** and **Update Settings**.

Use information below to fill this form depending of your logger.

Logger	Task name	Script
UWTC-REC3	lcllogger_autoload_rec	lcllogger_autoload_rec.php
GSMS-NET-HV	lcllogger_autoload_gsms	lcllogger_autoload_gsms.php
OW-SERVER	lcllogger_autoload_ow	lcllogger_autoload_ow.php
RMONI-TCP	lcllogger_autoload_rm	lcllogger_autoload_rm.php

For the task frequency, we recommend 5 minutes.

### 3-1-2. By logger data sending's

The OW-SERVER can directly send information to LabCollector. To configure this process of data sending's, copy and paste the OW-Server MAC address in your internet browser, then go into **System configuration > Post Client Setup** to specify the URL where the OW-Server can send data on a time basis.

Go to *System Configuration > Network* menu, and fill your login and password if your network is secured.

**Authentication Required** ✕

The server http://10.98.2.0:80 requires a username and password. The server says: Protected.

User Name:

Password:

In this section, information on IP address and name in your network are available, MAC address and firmware too.

Make sure that the box *Enable DHCP* is checked and that the firmware is up to date (here 1.42).

### Network Configuration

This page allows configuration of the controllers network settings, uploading new web page data, and performing a soft reset. It also contains information about uploading new firmware.

**CAUTION:** Incorrect settings may cause the controller to lose network connectivity, Uploading incorrect files may cause the controller to malfunction. Please proceed with caution.

Device Name:	OWServer_v2.Enet
User Name:	admin
Password:	***
Password:	***
Host Name:	EDSOWSERVER2
IP Address:	10.98.2.0
Gateway:	10.98.0.1
Subnet Mask:	255.255.0.0
Primary DNS:	10.28.0.5
Secondary DNS:	10.21.0.4
HTTP Port:	80
	<input type="checkbox"/> Require name / password for all pages

**Controller Maintenance**

The MAC address is "00:1E:C0:C9:EA:D5".

To reset the controller [CLICK HERE](#). This will execute a soft boot. The list of servers may be altered, and if more devices are connected than the controller supports, some devices may be exchanged for others.

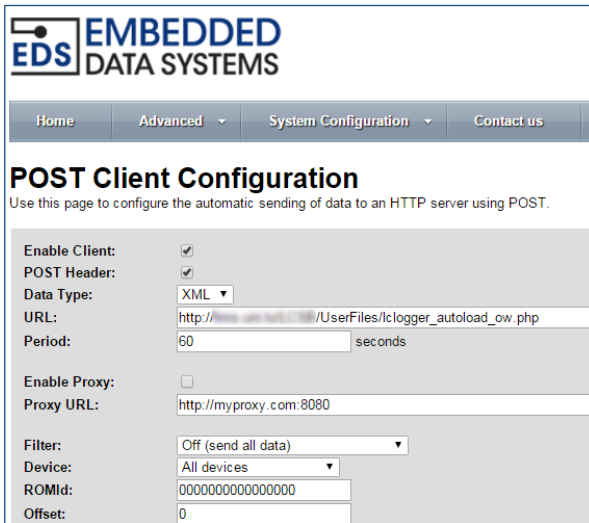
To upload new firmware, [CLICK HERE](#). The current firmware version is 1.42. Firmware may be uploaded over the network connection using HTTP. Contact [jenbeck@edditaxsystems.com](mailto:jenbeck@edditaxsystems.com) for more information.

To upload new firmware support data, [CLICK HERE](#). The current support data version is 1.42.

To view the error log, [CLICK HERE](#).

Then enter into the *System Configuration* menu and *POST Client Configuration*.





**EMBEDDED DATA SYSTEMS**

Home    Advanced ▾    System Configuration ▾    Contact us

## POST Client Configuration

Use this page to configure the automatic sending of data to an HTTP server using POST.

Enable Client:

POST Header:

Data Type: XML ▾

URL: http://.../UserFiles/lclogger\_autoload\_ow.php

Period: 60 seconds

Enable Proxy:

Proxy URL: http://myproxy.com:8080

Filter: Off (send all data) ▾

Device: All devices ▾

ROMId: 0000000000000000

Offset: 0

Select options *Enable Client* and *POST Header*.

Choose the data type in the select list, and fill the URL giving access to the file `lclogger_autoload_ow.php`.

You can change the period to 300 seconds.

Click on *Save* button then reboot the device by following the link in *System Configuration*>*Network*.

### Controller Maintenance

The MAC address is "00:1E:C0:C9:EA:D6".

To reset the controller [CLICK HERE](#). This will execute a soft boot. The list of devices may be reordered, and

To upload new firmware, [CLICK HERE](#). The current firmware version is 1.42. Firmware may be uploaded over

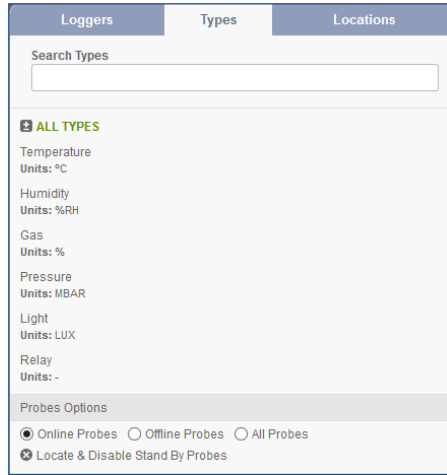
To upload new firmware support data, [CLICK HERE](#). The current support data version is 1.42.

To view the error log, [CLICK HERE](#).

Configure also your TELNET and SNMP parameters in *System Configuration* menu. Each time you changed parameter into these menus, controller will make a reset.



### 3-2. Probes setting


For each logger, you can configure different type of probes (temperature, humidity, Gas, Pressure, Light...). They are displayed by loggers, types or locations (choose the right tab).




Probe ID	Probe Name	Location >> Equipment	Expected	Tolerance	Units	Status	Alerts	
<b>Logger 7 (60 Probes) [+]</b>								
720010000025D47E_INP3	Octal 4-20 Millamp input 3	Room1 >> Cryo Storage 1	-	-	°C	Online	Yes	
940000053C86A928_4	Programmable resolution thermometer	Room1 >> Sanyo 2	-	-	°C	Online	Yes	
BA0000053C4FBD28_4	Programmable resolution thermometer	No Specific Equipment	-	-	°C	Online	Yes	
BC0010000028EE7E_4	Temperature, Humidity, Barometric Pressure and Lig	No Specific Equipment	-	-	°C	Offline	Yes	
BC0010000028EE7E_5	Temperature, Humidity, Barometric Pressure and Lig	No Specific Equipment	-	-	%RH	Offline	Yes	
BC0010000028EE7E_7	Temperature, Humidity, Barometric Pressure and Lig	No Specific Equipment	-	-	mbar	Offline	Yes	
BC0010000028EE7E_8	Temperature, Humidity, Barometric Pressure and Lig	No Specific Equipment	-	-	lux	Offline	Yes	
BE0010000026637E_4	Temperature, Humidity, Barometric Pressure and Lig	No Specific Equipment	-	-	°C	Offline	Yes	
BE0010000026637E_8	Temperature, Humidity, Barometric Pressure and Lig	No Specific Equipment	-	-	lux	Offline	Yes	
C30010000028F17E_4	Temperature, Humidity, Barometric Pressure and Lig	No Specific Equipment	-	-	°C	Offline	Yes	
C30010000028F17E_5	Temperature, Humidity, Barometric Pressure and Lig	No Specific Equipment	-	-	%RH	Offline	Yes	
C30010000028F17E_7	Temperature, Humidity, Barometric Pressure and Lig	No Specific Equipment	-	-	mbar	Offline	Yes	
C30010000028F17E_8	Temperature, Humidity, Barometric Pressure and Lig	No Specific Equipment	-	-	lux	Offline	Yes	
CC00100000280D7E_4	Temperature and Humidity Sensor	No Specific Equipment	-	-	°C	Offline	Yes	
CC00100000280D7E_5	Temperature and Humidity Sensor	No Specific Equipment	-	-	%RH	Offline	Yes	
E40010000027EF7E_4	Temperature and Humidity Sensor	No Specific Equipment	-	-	°C	Offline	Yes	
E40010000027EF7E_5	Temperature and Humidity Sensor	No Specific Equipment	-	-	%RH	Offline	Yes	
F500100000228F7E_4	Temperature, Humidity, Barometric Pressure and Lig	No Specific Equipment	-	-	°C	Online	Yes	
F500100000228F7E_5	Temperature, Humidity, Barometric Pressure and Lig	No Specific Equipment	-	-	%RH	Online	Yes	
F500100000228F7E_7	Temperature, Humidity, Barometric Pressure and Lig	No Specific Equipment	-	-	mbar	Online	Yes	
F500100000228F7E_8	Temperature, Humidity, Barometric Pressure and Lig	No Specific Equipment	-	-	lux	Online	Yes	

To configure a probe, click on their probe ID. You can specify the probe name, the equipment (corresponding to equipment available in the storage browser of LabCollector), expected temperature, and tolerance.

Logger 8 (18 Probes) [+]									
17000053CB05528_4	Programmable resolution thermometer	No Specific Equipment	▼	<input type="text"/>	<input type="text"/>		Online ▼	Yes ▼	
1E0010000027F77E_4	Temperature and Humidity Sensor	No Specific Equipment		-	-	°C	Online	Yes	<input type="checkbox"/>
1E0010000027F77E_5	Temperature and Humidity Sensor	No Specific Equipment		-	-	%RH	Online	Yes	<input type="checkbox"/>

You can also select the status of your probe: Online/Offline (and filter in *Probes Options* on the left panel) and if you need your probe triggers an alert. Validate your configuration using .

You also have the possibility to reset probe data using  icon.

Via this probe list, you also have access to probe's reading status:



Probe's readings are up to date



Probe in stand by (last reading over 24 hours ago)



The last value received was over 10 min.



Recorded values are outside the limits of tolerance set for the probe

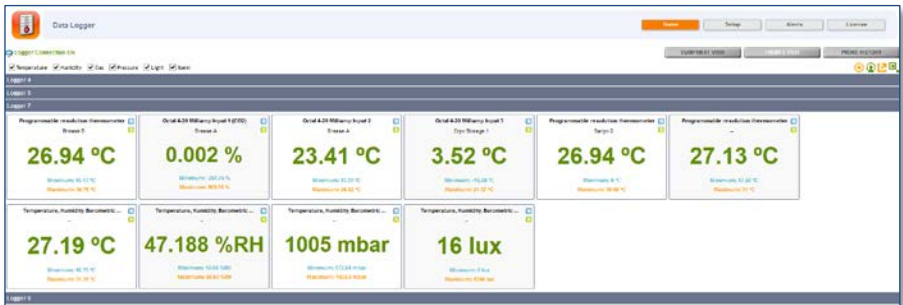
## 4- DATA LOGGER INTERFACE

### 4-1. Homepage

The homepage allows you to check the complete list of existing probes. Each probe will display its last reading.

Information can be viewed in 2 different forms:



- Probes view: probes are listed according to their corresponding logger



- Equipment view: probes are listed according to their corresponding equipment.





You can check independently temperature, humidity, gas, pressure and light levels.

The homepage view can be configured using the Configure favorites  and the View Favorites  icons.

Select the probes you want to appear in your homepage

Search  Logger  Type  Equipment

<input type="checkbox"/>	BA0000053C4FBD28_4	Logger 7	Programmable resolution thermometer	-	Temperature
<input type="checkbox"/>	25000003E6D07328_4	Logger 7	Programmable resolution thermometer	Bresse B	Temperature
<input type="checkbox"/>	720010000025D47E_INP2	Logger 7	Octal 4-20 Milliamp Input 2	Bresse A	Temperature
<input type="checkbox"/>	720010000025D47E_INP3	Logger 7	Octal 4-20 Milliamp Input 3	Cryo Storage 1	Temperature
<input type="checkbox"/>	940000053C68A928_4	Logger 7	Programmable resolution thermometer	Sanyo 2	Temperature
<input type="checkbox"/>	F500100000228F7E_4	Logger 7	Temperature, Humidity, Barometric Pressure and Lig	-	Temperature

A full screen view  is available and configurable .

**Configure Full Screen**

Active Probes: 34 Probes Favorite Probes: 2 Probes

Probes per Page  *Full Screen will have 7 pages*

Pagination

Show all pages alternately

Show only the selected page

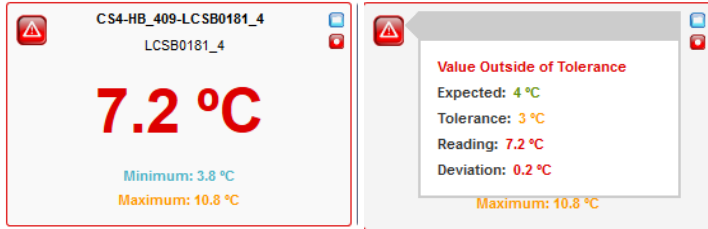
Monitor System

Single monitor

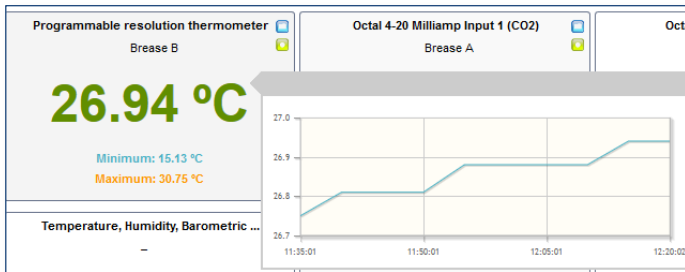
Several monitors in the same machine

If you configure expected value and tolerance, probe's data information can take 4 colours:


- **Green:** Probes values are OK within the expected value plus the tolerance interval. Without an expected value and a tolerance interval the value is always green.
- **Red:** Value is outside the tolerance interval.
- **Orange:** The last value received was over 10 min.
- **Grey:** The last value received was over 24h, orange colour becomes grey.




If you place your mouse cursor over the data, a popup will show the chart of the last readings.




If you click on the probe you will be able to see the detailed chart of that probe.

You can also check the logger connection follow the link to see details) on the top of the Homepage near  icon.

## 4-2. Detailed chart

Using  icon, you can access to detail probe information. You can filter for time periods in order to see temperatures fluctuation on that time. You can add other probes data to the chart to compare temperature values between probes. You can also print and export data to CSV file.



You can consult the live feed of a probe . The last 24 hours or the last week readings are also available (wait a few seconds to see data).



## 5- SMS GATEWAY SETTING

Go to [Alerts > SMS Server](#) then [Configure SMS Server](#).

SMS Server	Ip	Port	Response Ip	Response Port
SMS Gateway 78.192.91.17-44444 SMS History SMS Sent	78.192.91.17	44444	62.210.227.194	44444

[Configure SMS Server](#) [Configure SMS Gateway Login](#)

Contacts			
Name	Number	Contact Period	Secondary Contact
Pierre	+33682112597	Every Day (From 08:00:00 To 19:00:00)	Yes

[Add Contact](#)

Complete the form with IP address of your SMS Gateway and the IP response address (IP address of the server where LabCollector is installed). The response port is 44444 by default.

Ip	Port	Response Ip	Response Port
78.192.91.17	44444	62.210.227.194	44444

[CONFIRM](#)



**Don't forget to open the 44444 port of your server firewall. For Linux and Windows servers, you have to add UDP and TCP rules for the 44444 port.**

Now, [Configure SMS Gateway Login](#). Enter ID and Password defined on SMS gateway interface. See SMS GOIP documentation.

To configure task alert, go to [ADMIN > Setup > Proxy, Tasks Scheduler and Email](#)

As for chapter 3-1-1, add a new task with these parameters:

- Task name = lcllogger\_monitor
- Script = lcllogger\_monitor.php
- Task frequency: we recommend 10 to 20 minutes (adjust in order to reduce false alerts)

### Configuration of SMS sending

To add contact, use the button on the bottom right. Enter a name, a phone number (don't forget the country code) and choose the time range period.



Contacts		
Name	Number	Contact Period
Pierre	+33661123456	Every Day
Thomas	+33661123456	Only Working Days
Pierre 2	+33661123456	Only Weekends
Pierre 3	+33661123456	Monday, Wednesday, Friday
Pierre 4	+33661123456	From 01:00:00 To 13:00:00 (Every Day)
Pierre 5	+33661123456	From 13:05:00 To 23:55:00 (Every Day)
Pierre 6	+33661123456	From 2013-07-01 00:00:00 To 2013-09-01 00:00:00
Pierre 7	+33661123456	From 2013-08-05 00:00:00 To 2013-11-30 00:00:00

[Add Contact](#)

**Name**

**Number**

**Contact Period**

Every Day  
 Only Working Days  
 Only Weekends  
 Temporary Period  
 Specific Days  
 Specific Calendar Days

[CONFIRM](#)

Alerts can be sent according to defined periodic time ranges. This is useful to establish a policy of sending alerts in different days, time, etc. For the contact period, you have the choice between:

- Every day: You will automatically be contacted during a defined time period.

**Contact Period**

Every Day

From  :  To  :

- Only working days: You will automatically be contacted during the working days during a defined time period.

- Only week-ends: You will automatically be contacted during the week-ends during a defined time period.

- Temporary period: You will automatically be contacted during a defined time period

**Contact Period**

Every Day  
 Only Working Days  
 Only Weekends  
 Temporary Period  
 Specific Days  
 Specific Calendar Days

From 2015-09-09 08:30:00 To

September 2015						
Mo	Tu	We	Th	Fr	Sa	Su
31	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	1	2	3	4
5	6	7	8	9	10	11

🕒 16:39

- Specific days: You will automatically be contacted during defined specific days.

**Contact Period**

Every Day  
 Only Working Days  
 Only Weekends  
 Temporary Period  
 Specific Days  
 Specific Calendar Days

Wednesday

Monday Wednesday


- Specific Calendar days: You will automatically be contacted during defined specific days.

**Contact Period**

Every Day  
 Only Working Days  
 Only Weekends  
 Temporary Period  
 Specific Days  
 Specific Calendar Days

2015-09-25

2015-09-17 2015-09-25

You can also send a test SMS using  icon on the top right.

## 6- ALERTS MANAGEMENT

In order to activate alerts on probes, you must set an expected measured value and a tolerance range on the logger setup, and select Alert (see Probes setting).

### 6-1. Email alerts configuration

To configure task alert, go to **ADMIN > Setup > Proxy, Tasks Scheduler and Email**

As for chapter 3-1-1, add a new task with these parameters:

- Task name = lclgger\_monitor
- Script = lclgger\_monitor.php
- Task frequency: we recommend 10 to 20 minutes (adjust in order to reduce false alerts).


Configure your email alerts as for SMS server ([Configuration of SMS sending](#)):

- Go to **Alerts**
- **Add contact** button
- Enter a name, an Email address and choose the time range period.

All contact information (name, Email, contact period) is summarized in the alerts menu and can be edited by clicking on the pen icon.

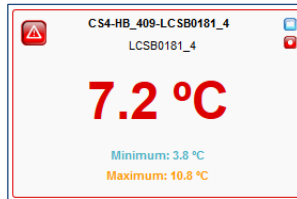
Contacts				
Name	Email	Contact Period	Secondary Contact	
Plants	contact@agribio.com	Every Day (From 00:00:00 To 11:00:00)	No	 
Tests	test@agribio.com	Only Weekends	No	 
Traps	trap@agribio.com	Only Working Days (From 08:00:00 To 23:00:00)	No	 

Add Contact

You can also send a test email using  icon on the top right.

### 6-2. Email alerts treatment

If measured values are faulty or out of range, the probe appear in red on the homepage and an email is send.



The probe A12, ID 0012, located in Delivery Fridge, detected an incorrect temperature value


- Expected: -20 °C;
- Tolerance: -2 °C;
- Recorded: -16.81 °C;

Our best regards, LabCollector


To avoid false alarms on temperature probes (ex: open/close doors), the system works as follows:

- Monitor cycles every X minutes. As configured under task alert.
- First off range induces a silent flag
- Second round: if flag is maintained, then alert is sent

### 6-3. Email alerts history

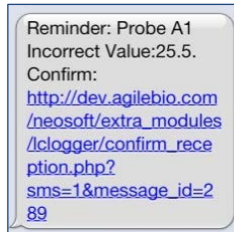
You have the possibility to check alert history for email sending using **EMAIL History** button. Choose a date range then apply it with . You can also filter by email and alert status, and export your research (green arrow).

Logger	Probe	Alert	Equipment	Sent On	Sent To (Name)	Sent To (Email)	Status
52	023000023C101328_4	-	-	2015-07-07 18:15:04	Tiago	tiag@sglebio.com	Not Confirmed 
52	E43019000027E7E_5	-	-	2015-07-07 18:15:04	Tiago	tiag@sglebio.com	Not Confirmed 
52	9E3000033C202528_4	-	-	2015-07-07 18:15:04	Tiago	tiag@sglebio.com	User Confirmed 
52	173000043C8D8528_4	-	-	2015-07-07 18:15:03	Tiago	tiag@sglebio.com	Not Confirmed 
52	1E3019000027FF7E_5	-	-	2015-07-07 18:15:03	Tiago	tiag@sglebio.com	Not Confirmed 
52	549010000027FA7E_5	-	-	2015-07-07 18:15:03	Tiago	tiag@sglebio.com	Not Confirmed 
52	E33000003CC6828_4	-	-	2015-07-07 18:15:03	Tiago	tiag@sglebio.com	Not Confirmed 
52	CC0010000328007E_4	-	-	2015-07-07 18:15:03	Tiago	tiag@sglebio.com	Not Confirmed 

The Email statuses are: **Not Confirmed** (the email was sent but not confirmed) or **User Confirmed** (the email was sent and confirmed). Use the  icon to change the status.

## 6-4. SMS alerts treatment

If measured value of a probe is out of range, the probe appears in red on the homepage and a SMS is sent. **Reminders will be sent every hour.**

A screenshot of an SMS message with a light blue border and rounded corners. The text inside is as follows:

Reminder: Probe A1  
Incorrect Value:25.5.  
Confirm:  
[http://dev.agilebio.com  
/neosoft/extra\\_modules  
/lclogger/confirm\\_rece  
ption.php?  
sms=1&message\\_id=2  
89](http://dev.agilebio.com/neosoft/extra_modules/lclogger/confirm_reception.php?sms=1&message_id=289)

Follow the link to confirm message reception (access internet on a phone is needed).

The number or reminders sent is configurable in the SMS Server Setup. After all reminders are sent and there is no confirm reception, then it starts sending reminders to the secondary contact defined in the setup.

## 6-5. SMS history

The same history as for Email is available for SMS using SMS History button on **ALERTS > SMS server** (see chapter 6-3).

## 7- UPGRADING AND UPDATING

To update or upgrade the **Data Logger Add-on** module, just download it from our website ([www.labcollector.com](http://www.labcollector.com)). Then, unzip the folder and paste files in the following folder:

Ex on Windows setup:

```
Programs\AgileBio\LabCollector\www\lab*\extra_modules\lcllogger
```

\*The name of this folder is the laboratory nickname chosen during LabCollector installation.



<http://www.labcollector.com>

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