

## 1. FOREWORD

The LAE GTW-03 Gateway allows an LAE controller fitted with RS485 serial port to be connected to the cloud. Connectivity is bidirectional: the gateway sends data to the cloud for storage and monitoring; from the cloud, you may send commands or configurations to the controller connected.

The GTW-03 may be also used to connect a controller with Modbus RS485 serial port to a Modbus TCP network.

## 2. CONNECTIONS

- Power the GTW-03 with a voltage between 10...26VDC, 150mA; please pay attention to respect the polarity of the PWR connector.
- Connect the RS485 port of the gateway to the RS485 port of the controller via the FC04-XXP04 cable that LAE supplied.
- To publish data on the cloud, the gateway needs to connect to a 2.4GHz WiFi router.

## 3. SETUP

It is possible to configure the GTW-03 parameters via a PC, Smartphone or tablet. These instructions explain how to configure the gateway by using a PC.

Each time the GTW-03 is powered, this creates a WiFi Access Point (AP) with SSID= LAE\_XXXXXX and password=12345678. The GTW-03 remains in this status for 2 minutes, after they have elapsed, if a connection has not been made, it will switch off and then switch on reloading the previously set operating mode. If a connection is made to the GTW-03 within 2 minutes, this remains in the Access Point mode until the end of configuration.

Click on the  icon at the bottom right next to the PC clock, then connect to the AP.

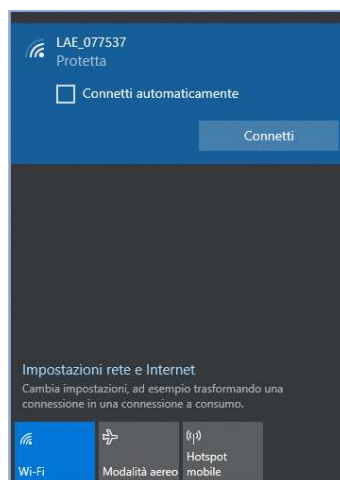


FIG. 1 ACCESS POINT

After connecting, it is possible to get to the internal web server by entering address 192.168.75.5.

*Note: if using a Smartphone with Android operating system, enable “desktop view” in the browser, for a better view.*

*If you get access to the web server from a PC or by using a device with iOS, at the first power-up of the GTW-03, it is possible to get access to the web server by entering address “gateway.local/” in the browser address bar. At the end of the configuration of the GTW-03 (read next paragraphs) and after setting parameter “machine serial number” with alphanumeric characters only (for ex.: sn0001), it will be possible to get access to the web server by entering parameter value “machine serial number” followed by .local/ (for ex.: sn0001.local/) in the address bar. If the serial number includes special characters, the web server may always be reached at the address “gateway.local/”. For devices with Android operating system, it is necessary to install the “Service browser” App.*

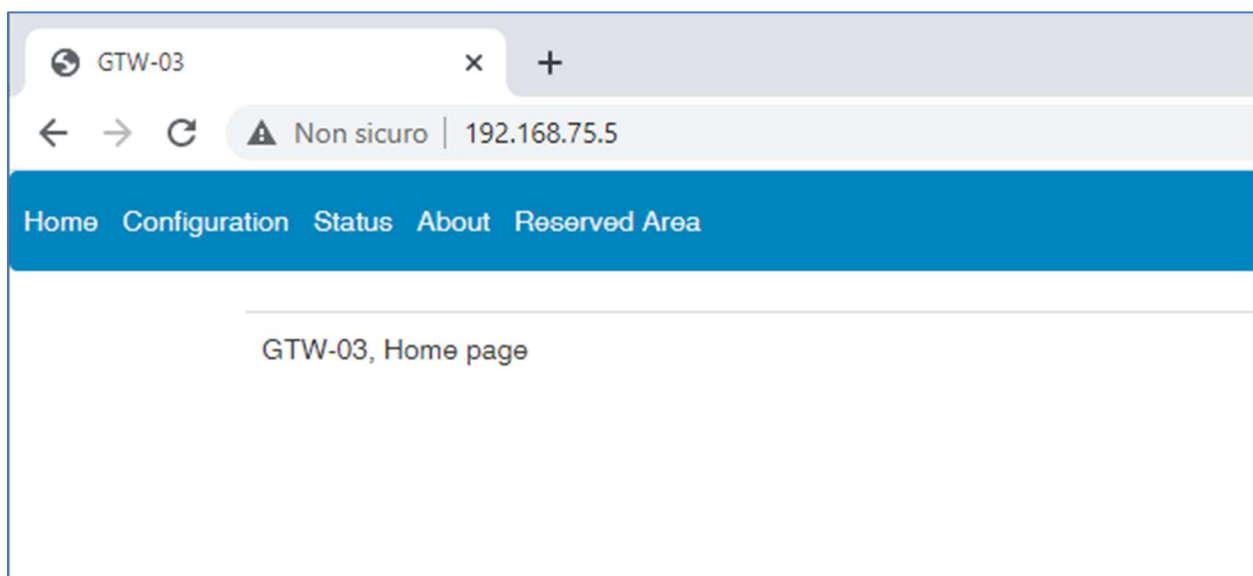


FIG. 2 HOME PAGE

In the webserver it is possible to check the gateway operation status or configure its parameters. Parameter configuration is divided into two levels: in the “base” level, accessible to all users, one may perform easy operations like: connect the gateway to a local AP, check the IP addresses set for the network boards or enter descriptions for the controller connected with RS485. To get access to the “advanced” configuration of the gateway, it is necessary to get into the reserved area by entering username and password. The username is always “user”; password is “P4ssw0rd” at the first power-up of the gateway and within the first 2 minutes after power supply has been connected: later every single user will be able to modify it within the “configuration” tab in the “system” section.

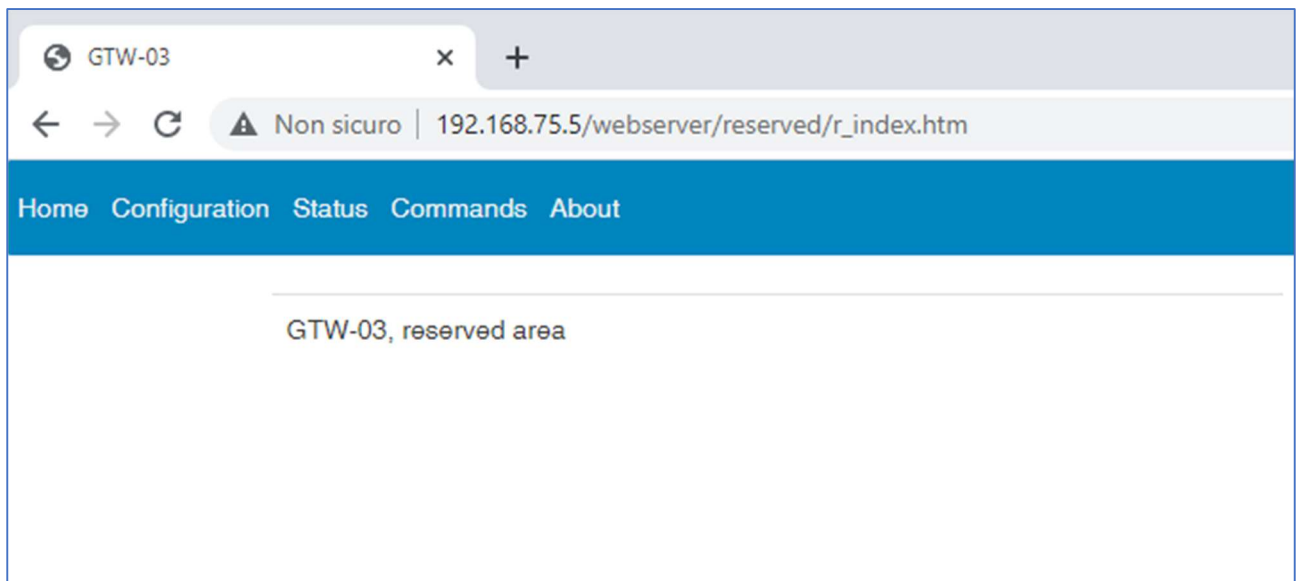


FIG. 3 HOME PAGE, RESERVED AREA

To connect the gateway to the cloud services, just configure the parameters of the submenus “Cloud”, “WiFi” and “Modbus” as described in the following paragraphs.

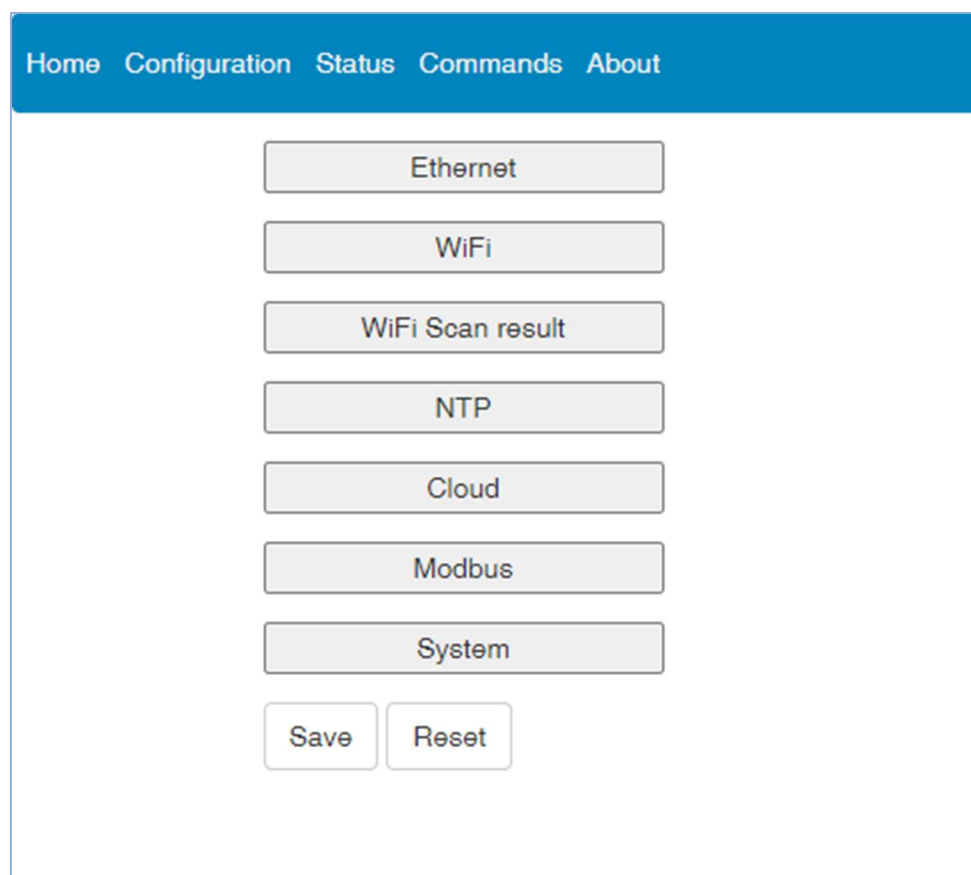
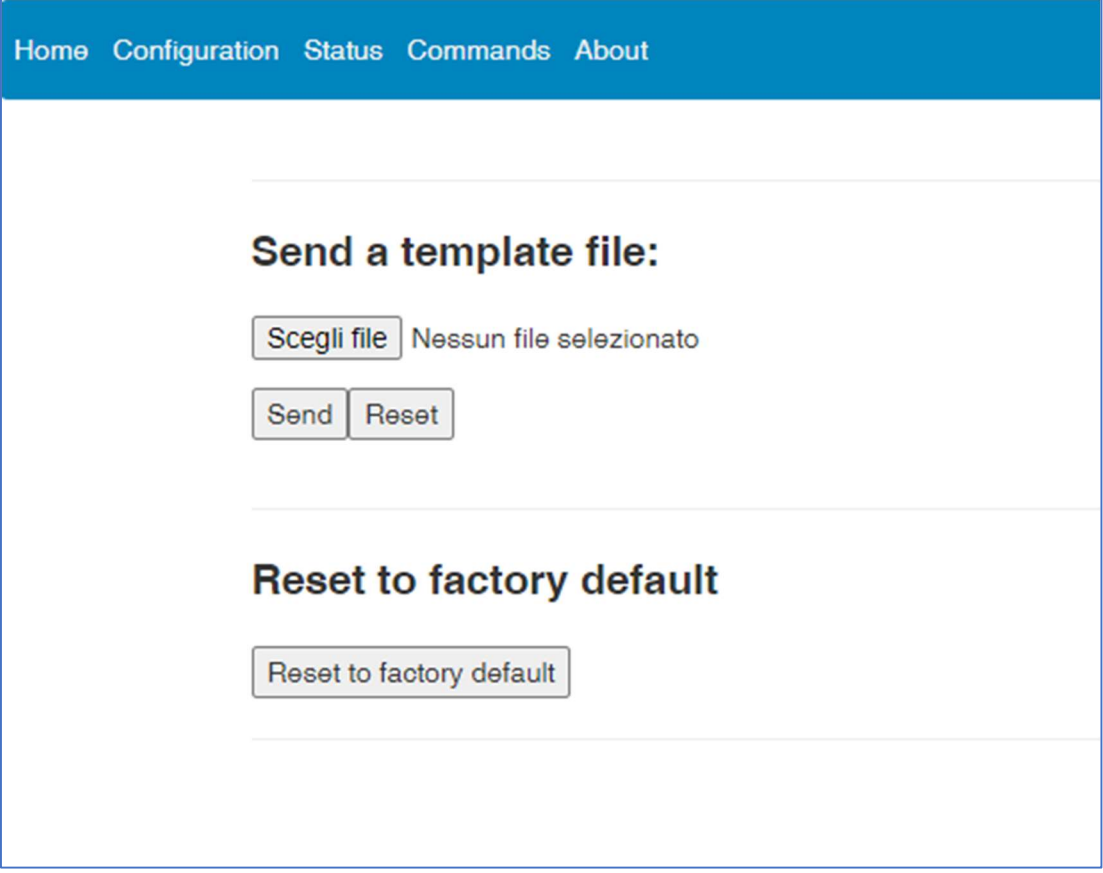


FIG. 4 CONFIGURATION

When the configuration has been completed, just click on “Save” to save the newly programmed parameters. The gateway goes off and turns on again automatically using the new configurations.

To re-load factory setting, get to the “Commands” tab and click on button “Reset to factory default”: a pop-up comes up to confirm the action required; click on “yes” to proceed.



The screenshot shows a web interface with a blue header bar containing navigation links: Home, Configuration, Status, Commands, and About. The 'Commands' tab is active. Below the header, there are two main sections separated by horizontal lines. The first section is titled 'Send a template file:' and contains a file selection interface with a button labeled 'Scegli file' and the text 'Nessun file selezionato'. Below this are two buttons: 'Send' and 'Reset'. The second section is titled 'Reset to factory default' and contains a single button labeled 'Reset to factory default'.

FIG. 5 RESET TO FACTORY DEFAULT

### 3.1 Cloud

In this submenu, the parameters to get access to the cloud services may be configured.

#### Cloud configuration

|                                   |                          |
|-----------------------------------|--------------------------|
| Send data to cloud                | Enabled                  |
| Machine serial number             | SN00001                  |
| Machine model                     | model #1                 |
| Machine description               | fridge #1                |
| MQTT hostname                     | mqtt.servitly.com        |
| MQTT port                         | 8883                     |
| MQTT username                     |                          |
| MQTT password                     |                          |
| MQTT certificate url              | mqtt.servitly.com/ca.crt |
| MQTT asset id                     | F8F0057FDED4_001         |
| Send data to cloud interval [sec] | 30                       |
| Interface                         | WiFi                     |

FIG. 6 CLOUD CONFIGURATION

Basic parameters:

- “Send data to cloud”: if set to “enabled” it enables the function of sending data to the cloud; if set to “disabled”, it enables the use of the GTW-03 solely as HUB: GTW-03 may only forward Modbus TCP messages to the controller connected via RS485. *Note: when "send data to cloud" is set to "enabled", the GTW-03 uses the RS485 bus to read the data to be sent to the cloud and to forward the TCP modbus messages that a supervisory system sent: for that supervisory system, please set the modbus communication timeout to 30s minimum; when it is set to "disabled", the modbus communication timeout may be reduced to 2 seconds.*
- “Machine Serial Number”, “Machine model”, “Machine description”: enter the data that allows to identify the machine inside the cloud services.
- “MQTT username”, “MQTT password”: enter the data received at the time of subscription to the service.

- “Send data to cloud interval [sec]”: enter the time interval between two data submissions to the cloud. Avoid too low values (less than 30s) in order not to generate excessive data traffic.

Parameters configurable by expert users (the gateway is supplied with pre-set data for connection to Servitly services):

- “MQTT hostname”: url where the MQTT metrics should be sent.
- “MQTT port”: port that the gateway uses to send the MQTT metrics; the default value is 8883. Make sure that this port is not blocked by one’s own firewall.
- “MQTT certificate URL”: url that the gateway uses to download the certificate to validate the data sent to the Cloud;
- “MQTT asset id”: identification code to be given to LAE to complete the subscription to the Servitly services.
- “Interface”: network interface used to connect to the Cloud.

## 3.2 WiFi

Use this submenu to configure WiFi connectivity.

| WiFi Configuration             |                     |
|--------------------------------|---------------------|
| WiFi mode                      | Access point ▼      |
| Access Point, SSID             | LAE_7FDF0A          |
| Access Point, password         | 12345678            |
| Access Point, IP address       | 192 . 168 . 75 . 5  |
| Access Point, IP subnet mask   | 255 . 255 . 255 . 0 |
| Station, SSID                  |                     |
| Station, password              |                     |
| Station, DHCP                  | Enabled ▼           |
| Station, IP address            | 192 . 168 . 0 . 1   |
| Station, IP subnet mask        | 255 . 255 . 255 . 0 |
| Station, IP gateway address    | 192 . 168 . 0 . 1   |
| Station, IP DNS address        | 132 . 1 . 1 . 1     |
| Station, DHCP: IP address      | 0 . 0 . 0 . 0       |
| Station, DHCP: Net Mask        | 0 . 0 . 0 . 0       |
| Station, DHCP: Gateway address | 0 . 0 . 0 . 0       |
| Station, DHCP: DNS address     | 0 . 0 . 0 . 0       |
| MAC address                    | F8:F0:05:7F:DF:0A   |

FIG. 7 WiFi CONFIGURATION

To be able to send data to the Cloud, the gateway must have an Internet access. It is thus necessary to connect the gateway to a local WiFi router fitted with Internet connectivity. Here below are the parameters to configure:

- “WiFi mode”: select option “station”.
- “Station, SSID”: enter the WiFi network SSID to connect to.
- “Station, password”: enter the WiFi network password to connect to.
- “Station, DHCP”: select option “Enabled”.

Parameters configurable by expert users:

- It is possible to set the gateway network addresses manually by selecting “Disabled” for “Station, DHCP”. Then, parameters “Station, IP address”, “Station, IP subnet mask”, “Station, IP gateway address”, “Station, IP DNS address” must be set.

Click on “Save” to save the new settings: the gateway goes off and turns then on to make the new setup active.

### 3.3 Modbus

Use this submenu to configure the serial communication with the controller to be monitored.

| Modbus configuration |              |
|----------------------|--------------|
| Protocol             | ASCII ▼      |
| Baudrate             | 9600 ▼       |
| Word length          | 7 bit ▼      |
| Parity               | EVEN ▼       |
| Stop bit             | 1 stop bit ▼ |
| Slave address        | 1            |

FIG. 8 MODBUS CONFIGURATION

The configurations to communicate with the LAE controllers are two:

- Controllers with MODBUS ASCII protocol. Set the following values
  - “Protocol”: ASCII
  - “Baudrate”: 9600
  - “Word length”: 7 bit
  - “Parity”: EVEN
  - “Stop bit”: 1 stop bit
  - “Slave address”: 1

- Controllers with MODBUS RTU protocol. Set the following values
  - “Protocol”: RTU
  - “Baudrate”: 9600
  - “Word length”: 8 bit
  - “Parity”: NONE
  - “Stop bit”: 1 stop bit
  - “Slave address”: 1

## 4 Status

To monitor the GTW-03 status, get to the “Status” tab. In this page, in case of anomalies, the possible causes are displayed to facilitate troubleshooting.

*Note: when the GTW-03 is connected to Internet, the LED near the Modbus connector is lit.*

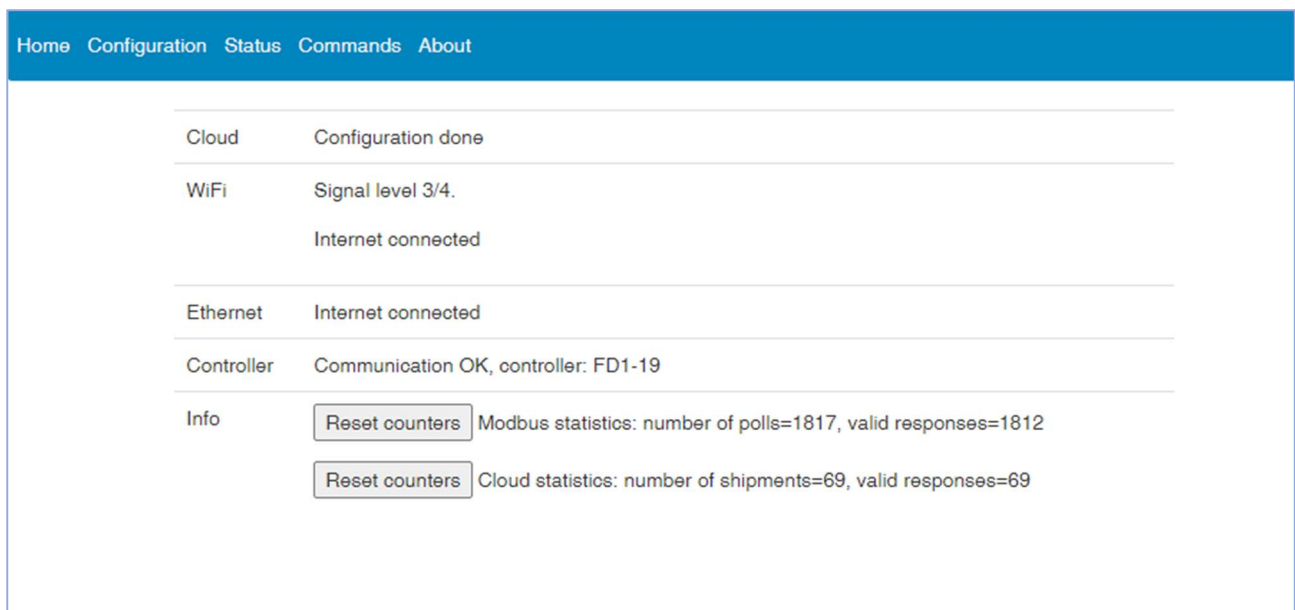


FIG. 9 STATUS

The information displayed is:

- “Cloud”: Cloud configuration status.
- “WiFi”: Status of communication between the GTW-03 and the router. If the signal level is less than 1/4, move the GTW-03 to a position where there is a stronger signal.
- “Ethernet”: The status of the network boards.
- “Controller”: The MODBUS communication status with the controller to be monitored.
- “Info”: The communication statistics between the GTW-03 and the controller to be monitored and between the GTW-03 and the Cloud.

## 5 SETUP FOR EXPERT USERS

Here below is the description of the submenus “Ethernet”, “WiFi scan result” and “NTP” present in the “configuration” page.

### 5.1 Ethernet

The GTW-03 standard model is not fitted with Ethernet port, still it is possible to connect an Ethernet-USB adapter to connect the gateway to one’s own wired network. The recommended adapter is model UE200 by TP-LINK.



FIG. 10 TP-LINK UE200

To order the gateway with integrated Ethernet port, please contact your reseller.

## Ethernet Configuration

|                       |                             |
|-----------------------|-----------------------------|
| Ethernet              | Not fitted / Eth over USB ▼ |
| DHCP                  | Enabled ▼                   |
| IP address            | 192 . 168 . 0 . 1           |
| IP subnet mask        | 255 . 255 . 255 . 0         |
| IP gateway address    | 192 . 168 . 0 . 1           |
| IP DNS address        | 192 . 168 . 0 . 1           |
| DHCP: IP address      | 0 . 0 . 0 . 0               |
| DHCP: Net Mask        | 0 . 0 . 0 . 0               |
| DHCP: Gateway address | 0 . 0 . 0 . 0               |
| DHCP: DNS address     | 0 . 0 . 0 . 0               |
| MAC address           | 1E:30:6C:4E:21:58           |

FIG. 11 ETHERNET CONFIGURATION

Set “DHCP” on “enabled” to obtain the IP configuration from your DHCP server; set on “disabled” to manually configure the addresses of the Ethernet board.

## 5.2 WiFi Scan result

In this submenu, the list of the SSIDs that the gateway detects, appears.

| WiFi Scan result |                    |
|------------------|--------------------|
| SSID #1          | LAE_2B032F         |
| SSID #2          | NETGEAR43          |
| SSID #3          | LAE Electronic     |
| SSID #4          | TP-LINK_ED58_2GEXT |
| SSID #5          | TP-LINK_ED58       |

FIG. 12 WIFI SCAN RESULT

## 5.3 NTP

In this submenu you may configure the NTP (Network Time Protocol) server addresses.

| NTP configuration |                |
|-------------------|----------------|
| NTP address #1    | 0.pool.ntp.org |
| NTP address #2    | 1.pool.ntp.org |
| NTP address #3    | 2.pool.ntp.org |
| NTP address #4    | 3.pool.ntp.org |

FIG. 13 NTP CONFIGURATION

## 5.4 System

In this submenu one may modify the password to get access to the webserver reserved area; moreover, one may modify the SSID prefix with which the gateway shows itself as an Access Point (this is LAE by default).

| System configuration              |                      |
|-----------------------------------|----------------------|
| Webserver, reserved area password | <input type="text"/> |
| AP wifi, prefix                   | <input type="text"/> |

FIG. 14 NTP CONFIGURATION

## 6. Commands

In this page, you may send the gateway template files, to run the communication between the controller and the Cloud. The GTW-03 includes the necessary files to be able to be used with any of the LAE controllers: please check if your controller is supported, with the help of your local reseller.

In this page it's also possible to re-load the GTW-03 factory setting by clicking on button "reset to factory default".

Home Configuration Status Commands About

---

### Send a template file:

Nessun file selezionato

---

### Reset to factory default

---

FIG. 15 COMMANDS

## 7. About

In this page you find the information relating to the firmware release.

| Home Configuration Status Commands About |                                |
|------------------------------------------|--------------------------------|
| Description                              | Value                          |
| Release major                            | 1                              |
| Release minor                            | 9                              |
| Last build                               | 10/05/2021- 8:51:27.10         |
| Git revision                             | 1.9-5-g693afc0                 |
| Last ON                                  | POR/PDR BOR, EXT RST, POR/PDR, |

FIG. 16 ABOUT

## 8. Technical Data

- CPU: STM32
- Core: Cortex-M4 @168MHz
- Memory: 4MB NOR FLASH
- OS: Segger RTOS
- WiFi: IEEE 802.11 b/g/n
- 10/100 Ethernet interface (optional)
- USB Type A
- RS485
- Power supply: 10 to 26 Vdc, 150mA
- Size: 64 x 138 x 31 mm

## 9. Approvals

|     |                          |
|-----|--------------------------|
| FCC | 2ADHKATWILC1000          |
| IC  | 20266-ATWILC1000         |
| JP  | 005-101763               |
| KR  | R-CRM-mcp-WILC1000MR110P |
| TW  | CCAN18LP0310T7           |
| CN  | 2018DJ1313               |

10.   Wiring diagram

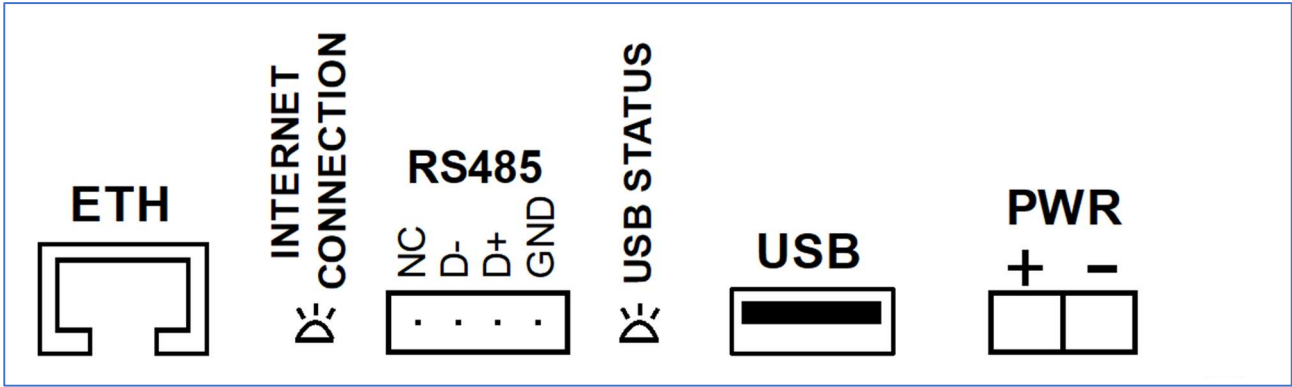


FIG. 17 WIRING DIAGRAM

11.   How to Order

| Model              | Suffix |   |      | Description                                             |
|--------------------|--------|---|------|---------------------------------------------------------|
| GTW-03             |        |   |      | Gateway LAE rev. 03                                     |
| WiFi antenna       | -0     |   |      | PCB antenna (reverse polarity SMA connector not fitted) |
|                    | -1     |   |      | Reverse polarity SMA connector                          |
| Ethernet connector |        | 0 |      | Absent                                                  |
|                    |        | 1 |      | Present                                                 |
| Firmware revision  |        |   | /001 |                                                         |

## 12. SUBSCRIPTION TO THE SEMIOTY SERVICE

To subscribe the Semioty service and display the data published in the cloud, it's necessary to provide LAE with a valid email address, this is necessary to login in the site "https://lae.semioty.com/" and receive notifications concerning alarms of the controllers connected to the gateway.

Within 48 hours from the request, you will receive an email from Semioty with the indications on how to set your own password. After setting your own password, it will be possible to connect to the site and log in.

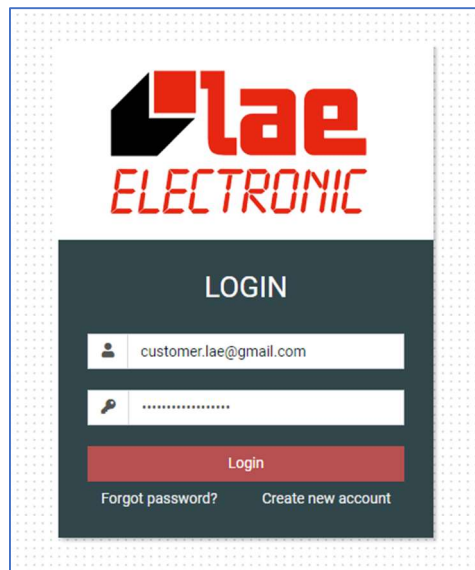


FIG. 18 SERVITLY - LOGIN

## 13. OVERVIEW

After logging in, a page will open with the geolocalisation of the gateways connected to the account.

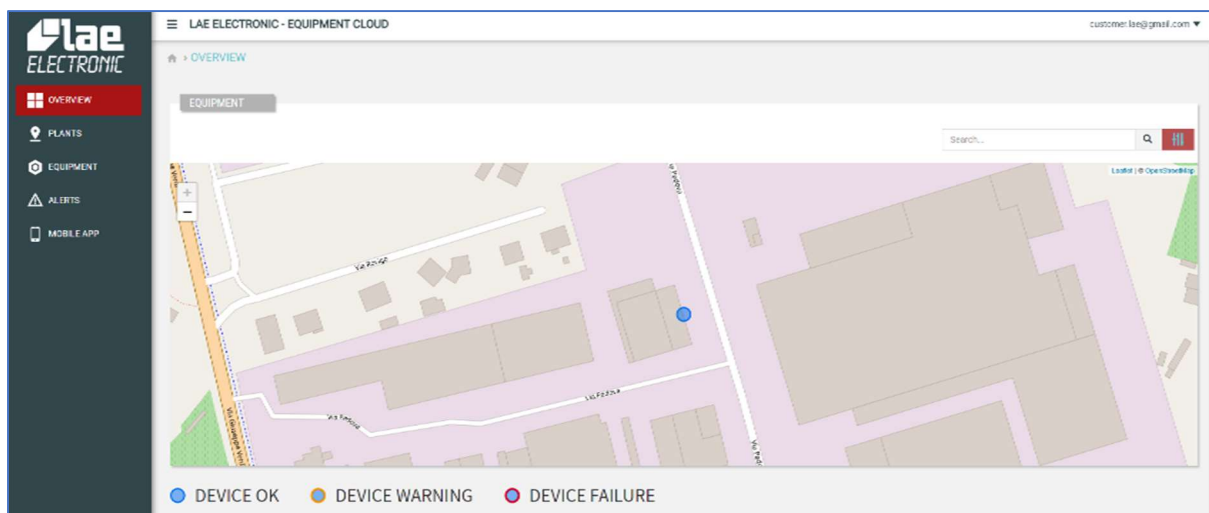


FIG. 19 OVERVIEW

## 14. PLANTS

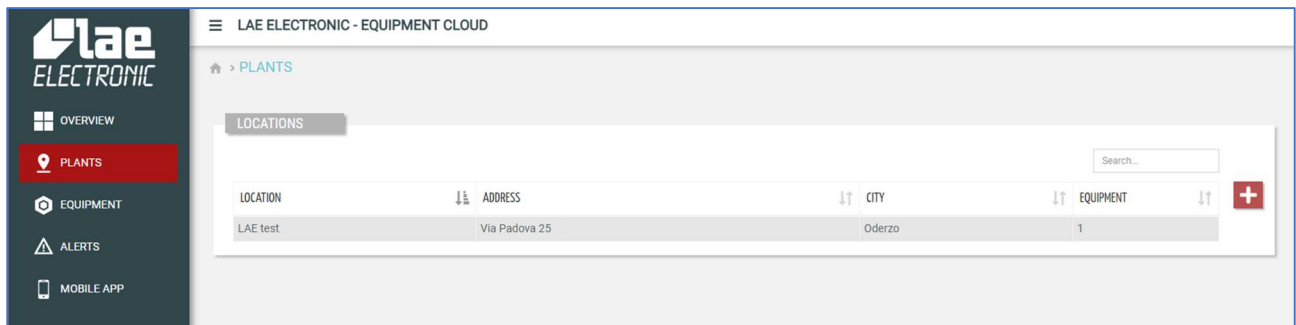


FIG. 20 PLANTS

Page “PLANTS” includes the list of the Locations (that is the physical location where the gateways are installed).

- Location: location name
- Address: location address
- City: location city/town
- Equipment: number of refrigerators (or machines) installed in the location

Click on the location row to display its equipment.

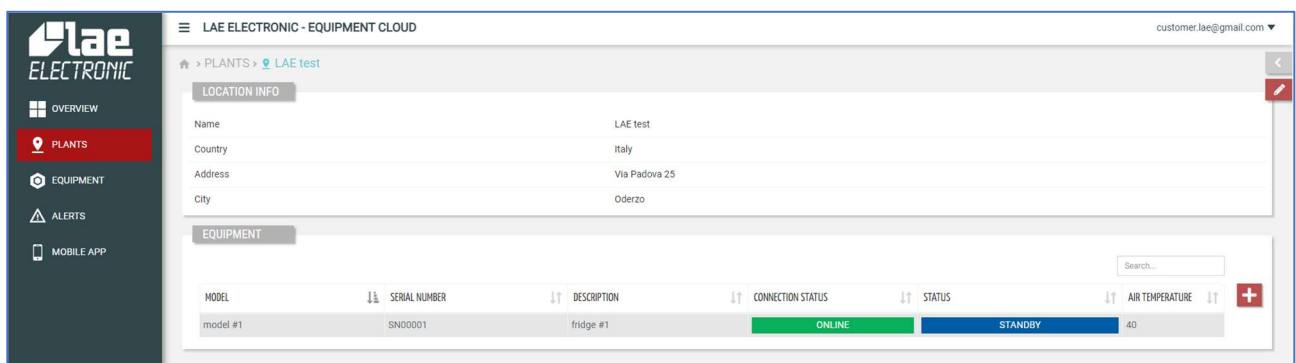
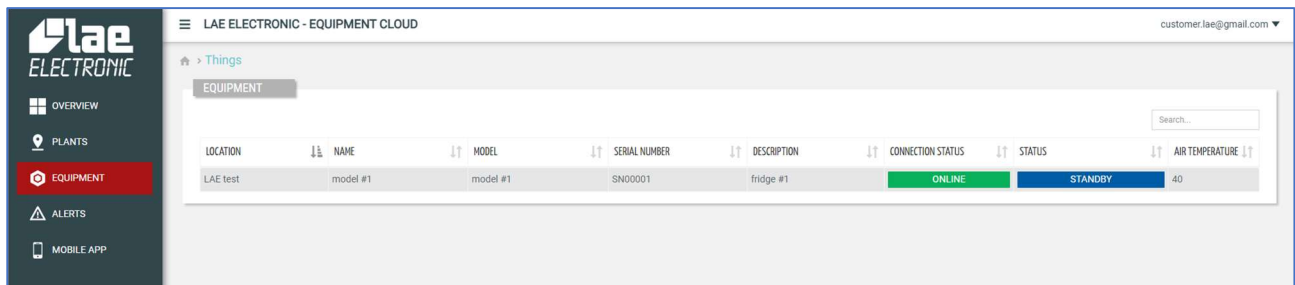


FIG. 21 PLANTS – LOCATION INFO + EQUIPMENT

## 15. EQUIPMENT



| LOCATION | NAME     | MODEL    | SERIAL NUMBER | DESCRIPTION | CONNECTION STATUS | STATUS  | AIR TEMPERATURE |
|----------|----------|----------|---------------|-------------|-------------------|---------|-----------------|
| LAE test | model #1 | model #1 | SN00001       | fridge #1   | ONLINE            | STANDBY | 40              |

FIG. 22 EQUIPMENT

Page “EQUIPMENT” includes the list of refrigerators (or machines) installed.

- Location: installation location
- Name: refrigerator (or machine) name
- Model: refrigerator (or machine) model
- Serial Number: refrigerator (or machine) serial number
- Description: a short description of the function
- Connection Status: connection status to the Cloud
- Status: machine status (Cooling, Defrost...)
- Air Temperature: air temperature measured in the machine

Model, Serial Number and Description match the values typed in the gateway locally.

Click on the controller row to get access to the dedicated page.

## 15.1 Equipment Cloud

In the equipment page you may display all the details relevant to a refrigerator (or machine) registered on the cloud.

In the “OVERVIEW” section, the details of the machine, the current status and the trend of the temperatures measured, are displayed. In the “CONFIGURATION” table, you may modify the control setpoint and the ON/OFF status. In this section it’s possible to perform a manual defrost by clicking on the “MANUAL DEFROST” button.

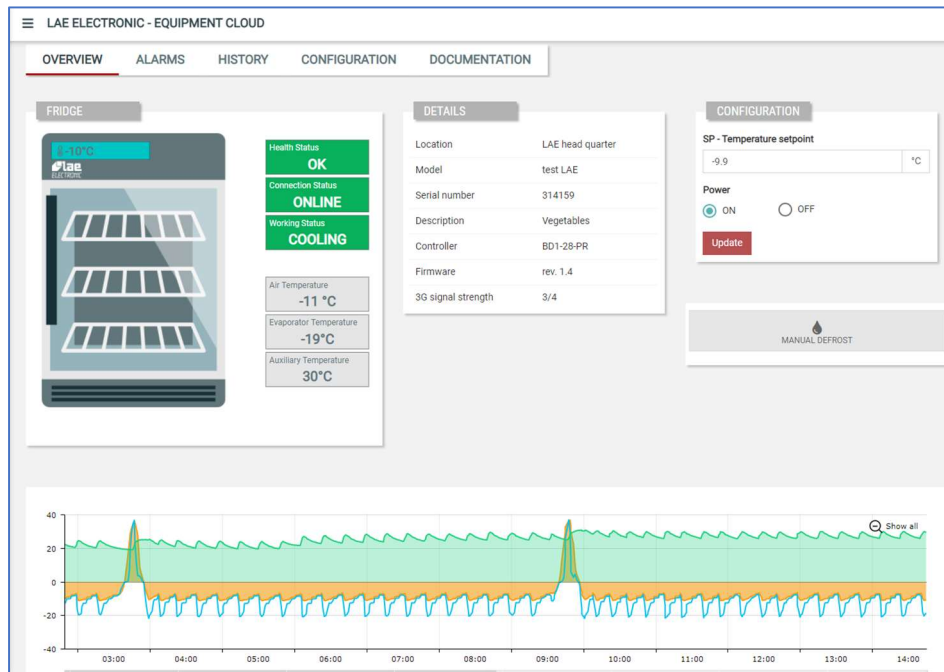


FIG. 23 CONTROLLER OVERVIEW

In the “ALARMS” section, it’s possible to display the active alarms and the recordings of the past alarms.

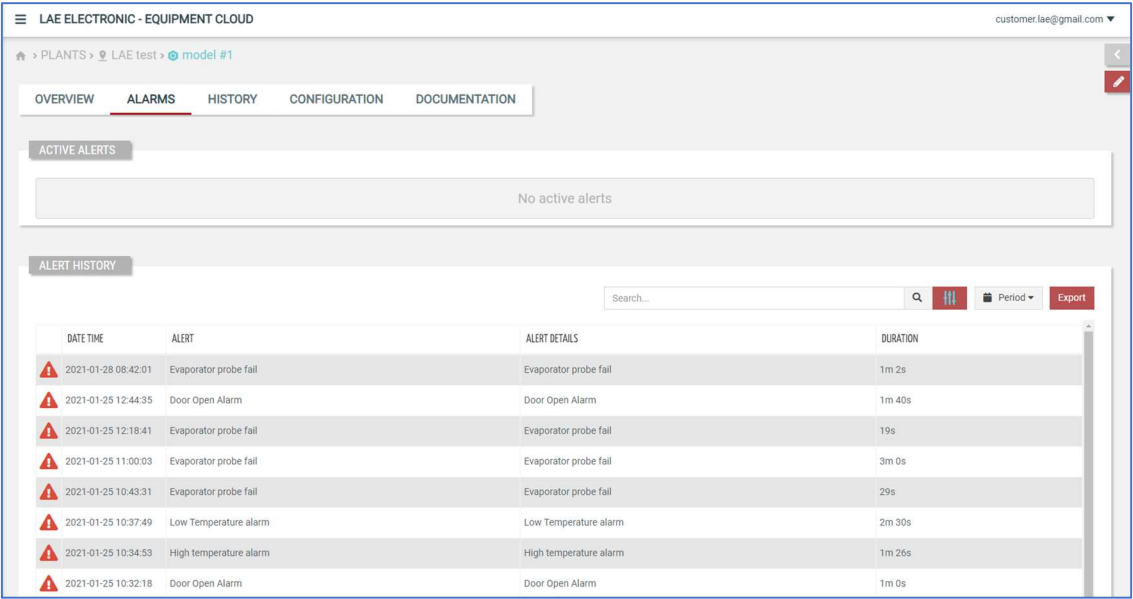


FIG. 24 CONTROLLER ALARMS

In the "HISTORY" section it’s possible to display the temperatures recorded and save them on an Excel sheet.

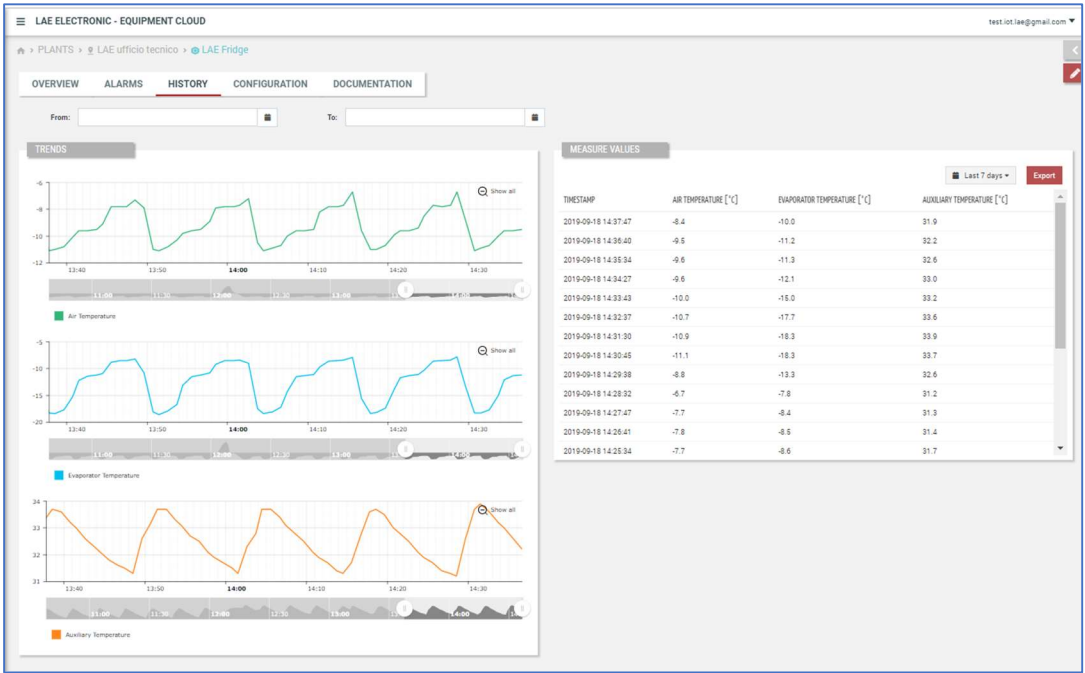


FIG. 25 CONTROLLER HISTORY

The machine status of the latter 7 days is displayed.

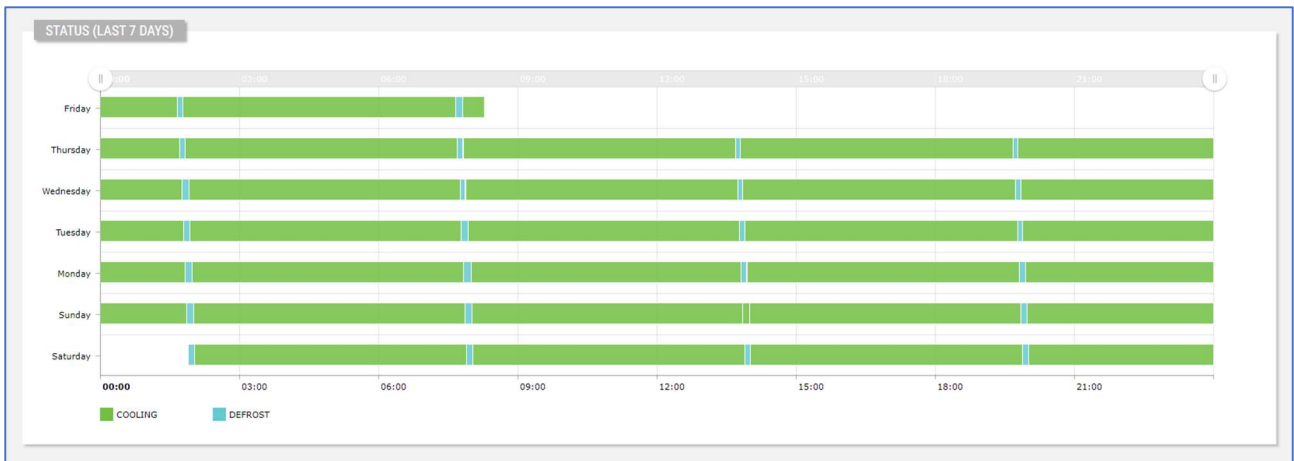


FIG. 26 STATUS (LAST 7 DAYS)

In the “CONFIGURATION” section it is possible to re-program the machine control parameters by sending an URS type file to the controller (or type \*.uts for less recent controllers, please contact LAE for more details). The URS file type is generated by means of the external URS 2.1 tool.

In the “DOCUMENTATION” section, there are links relating to the LAE controller manuals.

## 16. ALERTS

Page Alerts displays details on the active alarms, alarm history and a statistical information page.

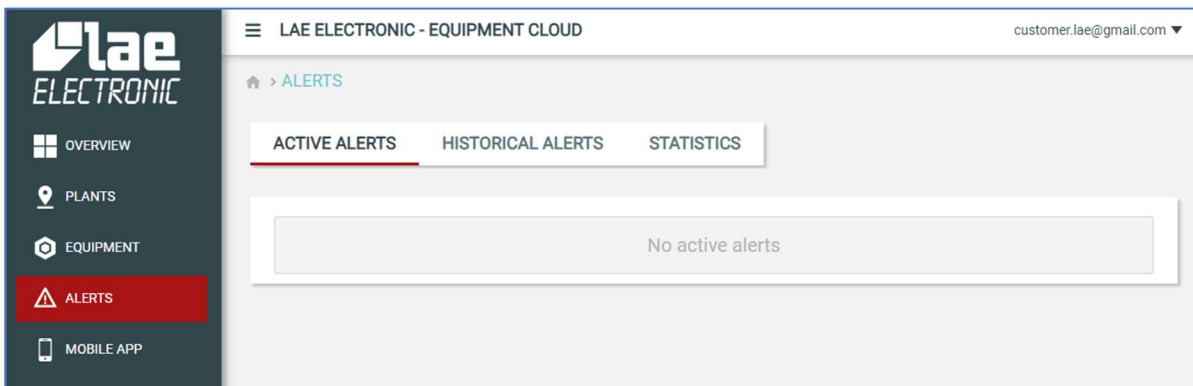


FIG. 27 ACTIVE ALERTS

In the “HISTORICAL ALERTS” tab, by clicking on “Export”, the alarm history is downloaded on an Excel file format.

| DATE TIME           | LOCATION | EQUIPMENT      | TYPE                   | ALERT                  | ALERT DETAILS          | DURATION    |
|---------------------|----------|----------------|------------------------|------------------------|------------------------|-------------|
| 2021-01-28 08:42:01 | LAE test | LAE Controller | Evaporator probe fail  | Evaporator probe fail  | Evaporator probe fail  | 1m 2s       |
| 2021-01-25 12:44:35 | LAE test | LAE Controller | Door Open Alarm        | Door Open Alarm        | Door Open Alarm        | 1m 40s      |
| 2021-01-25 12:18:41 | LAE test | LAE Controller | Evaporator probe fail  | Evaporator probe fail  | Evaporator probe fail  | 19s         |
| 2021-01-25 11:00:03 | LAE test | LAE Controller | Evaporator probe fail  | Evaporator probe fail  | Evaporator probe fail  | 3m 0s       |
| 2021-01-25 10:43:31 | LAE test | LAE Controller | Evaporator probe fail  | Evaporator probe fail  | Evaporator probe fail  | 29s         |
| 2021-01-25 10:37:49 | LAE test | LAE Controller | Low Temperature alarm  | Low Temperature alarm  | Low Temperature alarm  | 2m 30s      |
| 2021-01-25 10:34:53 | LAE test | LAE Controller | High temperature alarm | High temperature alarm | High temperature alarm | 1m 26s      |
| 2021-01-25 10:32:18 | LAE test | LAE Controller | Door Open Alarm        | Door Open Alarm        | Door Open Alarm        | 1m 0s       |
| 2021-01-25 10:27:47 | LAE test | LAE Controller | Evaporator probe fail  | Evaporator probe fail  | Evaporator probe fail  | 30s         |
| 2021-01-25 10:17:45 | LAE test | LAE Controller | Air Probe failure      | Air Probe failure      | Air Probe fail         | 2m 0s       |
| 2021-01-11 14:06:38 | LAE test | LAE Controller | Air probe failure      | Air Probe Failure      | Air probe fail         | 23h 29m 56s |
| 2021-01-11 14:06:38 | LAE test | LAE Controller | Evaporator probe fail  | Evaporator probe fail  | Evaporator probe fail  | 23h 29m 56s |
| 2020-12-29 09:26:31 | LAE test | LAE Controller | T3 probe failure       | T3 probe failure       | T3 probe failure       | 2m 0s       |

FIG. 28 HISTORICAL ALERTS



FIG. 29 STATISTICS

## 17. MOBILE APP

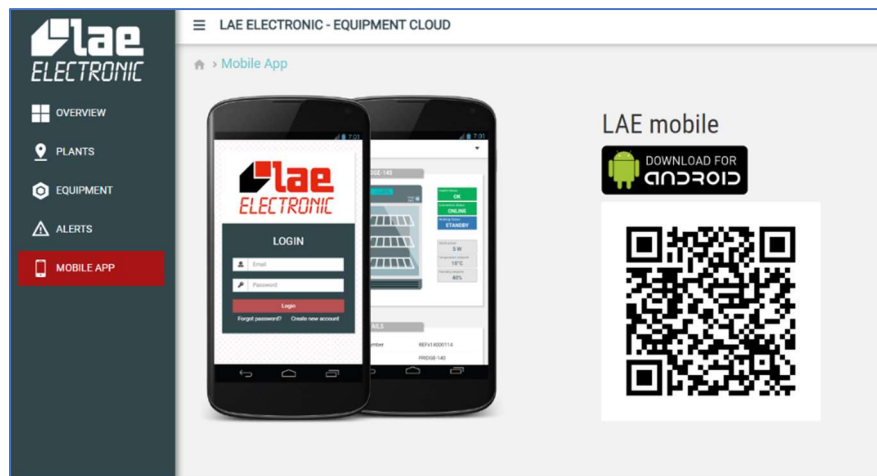


FIG. 30 MOBILE APP

It's possible to get access to Semioty also via an Android APP.

## 18. HOW TO (for expert users only)

### 18.1 Add Location

Click on "PLANTS" tab to open the list of locations

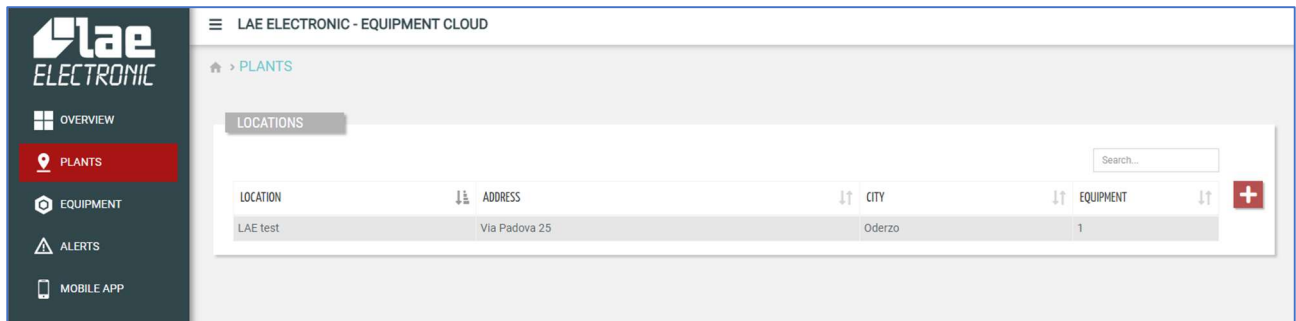
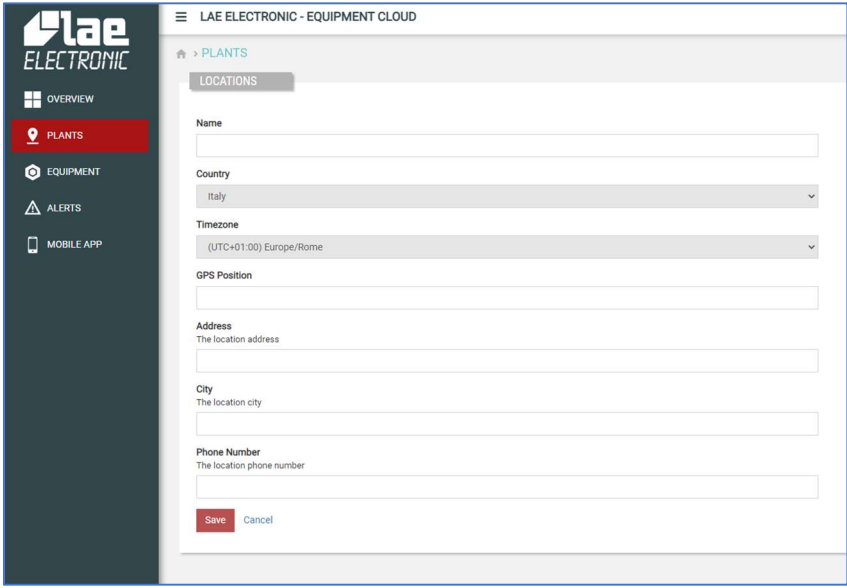


FIG. 31 PLANTS

Click on button  to add a new location and complete form.



The screenshot shows the 'LAE ELECTRONIC - EQUIPMENT CLOUD' interface. On the left is a dark sidebar with the 'lae ELECTRONIC' logo and navigation links: OVERVIEW, PLANTS (highlighted in red), EQUIPMENT, ALERTS, and MOBILE APP. The main content area is titled 'LAE ELECTRONIC - EQUIPMENT CLOUD' and shows a breadcrumb trail 'PLANTS' > 'LOCATIONS'. The 'LOCATIONS' section contains a form with the following fields: 'Name' (text input), 'Country' (dropdown menu with 'Italy' selected), 'Timezone' (dropdown menu with '(UTC+01:00) Europe/Rome' selected), 'GPS Position' (text input), 'Address' (text input with placeholder 'The location address'), 'City' (text input with placeholder 'The location city'), and 'Phone Number' (text input with placeholder 'The location phone number'). At the bottom of the form are 'Save' and 'Cancel' buttons.

FIG. 32 ADD NEW LOCATION

- Name: location name
- Country: the Country where the location is
- Time zone
- GPS Position: the geographical coordinates of the location. This information is necessary to be able to display the location on the map of page Overview. You may obtain the GPS coordinates with the Google Maps service.
- Address: location address
- City: the city/town where the location is
- Phone Number: location telephone number

Click on “Save” to complete the creation of the new location.

To make the location visible on the map, it’s necessary that this location includes at least one equipment.

## 18.2 Add equipment

CAUTION: the creation of a new equipment implies a fixed annual activation fee. To know how much the fee is, please contact your distributor/provider.

From page “PLANTS” click on the location row where you wish to add a new equipment: the following page will be displayed.

The screenshot shows the 'LAE ELECTRONIC - EQUIPMENT CLOUD' interface. The left sidebar contains navigation links: OVERVIEW, PLANTS (selected), EQUIPMENT, ALERTS, and MOBILE APP. The main content area is titled 'PLANTS > LAE test'. It features two sections: 'LOCATION INFO' and 'EQUIPMENT'. The 'LOCATION INFO' section displays details for the location 'LAE test', including Country (Italy), Address (Via Padova 25), and City (Oderzo). The 'EQUIPMENT' section shows a table with columns: MODEL, SERIAL NUMBER, DESCRIPTION, CONNECTION STATUS, STATUS, and AIR TEMPERATURE. A single row is visible with the following data: model #1, SN00001, fridge #1, ONLINE, STANDBY, and 40. A red '+' icon is located at the bottom right of the equipment table.

FIG. 33 PLANTS – LOCATION INFO + EQUIPMENT

Click on key  near the Equipment table and fill in just the fields “Name” and “Thing Definition”, by selecting “LAE Controller”.

The screenshot shows the 'LAE ELECTRONIC - EQUIPMENT CLOUD' interface with the 'ADD EQUIPMENT' form. The left sidebar is the same as in Figure 33. The main content area is titled 'PLANTS > LAE test' and shows the 'EQUIPMENT' section. The form contains the following fields: Name (text input), Serial Number (text input), Thing Definition (dropdown menu), GPS Position (text input with value 45.798037, 12.501071), Description (text input with placeholder 'Equipment description'), Firmware (text input), Installation Date (text input with calendar icon), and Activation Date (text input with calendar icon). At the bottom of the form are 'Save' and 'Cancel' buttons.

FIG. 34 ADD EQUIPMENT

Click on “Save” to create a new equipment.

Click on “CONNECTION” tab and fill in the “Asset Id” field with the codes that LAE provided at the time of subscribing to the service.

The screenshot displays the 'LAE ELECTRONIC - EQUIPMENT CLOUD' interface. On the left is a dark sidebar with navigation links: OVERVIEW, PLANTS (highlighted in red), EQUIPMENT, ALERTS, and MOBILE APP. The main content area has a top navigation bar with tabs: GENERAL, CONNECTION (active), RULES, SUBSCRIPTIONS, and CERTIFICATES. Below the tabs are three sections: 1. CONFIGURATION: 'Select the connection configuration mode' with radio buttons for 'Token' and 'Manual' (selected). 2. CONNECTOR: Fields for 'Type' (Servitly Thing Connector), 'Mqtt Broker URL' (mqtt.servitly.com:8883), 'Username' (lae\_test), 'Password' (masked with dots, with a note: 'Password must be at least 8 characters long and must contain at least: one lower case letter, one upper case letter and one number'), and 'Payload Format' (JSON). 3. MAPPING: Fields for 'Asset Id' and 'Path'.

FIG. 35 ADD EQUIPMENT - CONNECTION

Click on “Save” to complete the creation of a new equipment.

Check the equipment list of the location to make sure the operation has been successfully performed.

### 18.3 Modify your own personal details and the access password

Click on your own email on top right and select Profile.

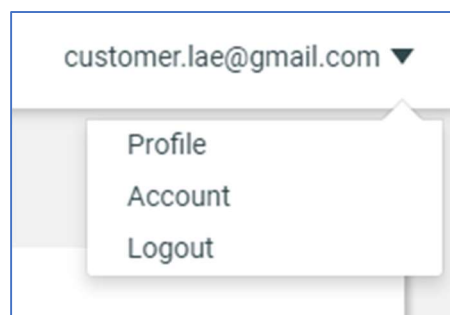


FIG. 36 PROFILE

A page showing personal details and the access credentials opens up.

Modify the desired fields and confirm by clicking on “Save”.

**lae**  
ELECTRONIC

OVERVIEW  
PLANTS  
EQUIPMENT  
ALERTS  
MOBILE APP

☰ LAE ELECTRONIC - EQUIPMENT CLOUD

🏠 > Profile

GENERAL SECURITY NOTIFICATIONS SETTINGS

**Personal information**

**First Name**  
LAE

**Last Name**  
Customer

**Language**  
Italian

**Timezone**  
(UTC+01:00) Europe/Rome

**Access credentials**

**Email**  
customer.lae@gmail.com

**Password**  
.....

**New Password**  
  
Password must be at least 8 characters long and must contain at least: one lower case letter, one upper case letter and one number

**New Password Confirmation**  
  
  
Save

FIG. 37 PROFILE – GENERAL

## 18.4 Receive notification emails and push notifications

The system may send notification emails and push notifications at the occurrence and at the end of an alarm. To configure this option, please proceed as follows:

Click on your email at the top right and select Profile.

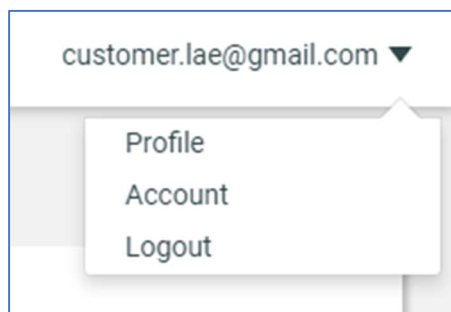


FIG. 38 PROFILE

Click on the “NOTIFICATIONS” tab.

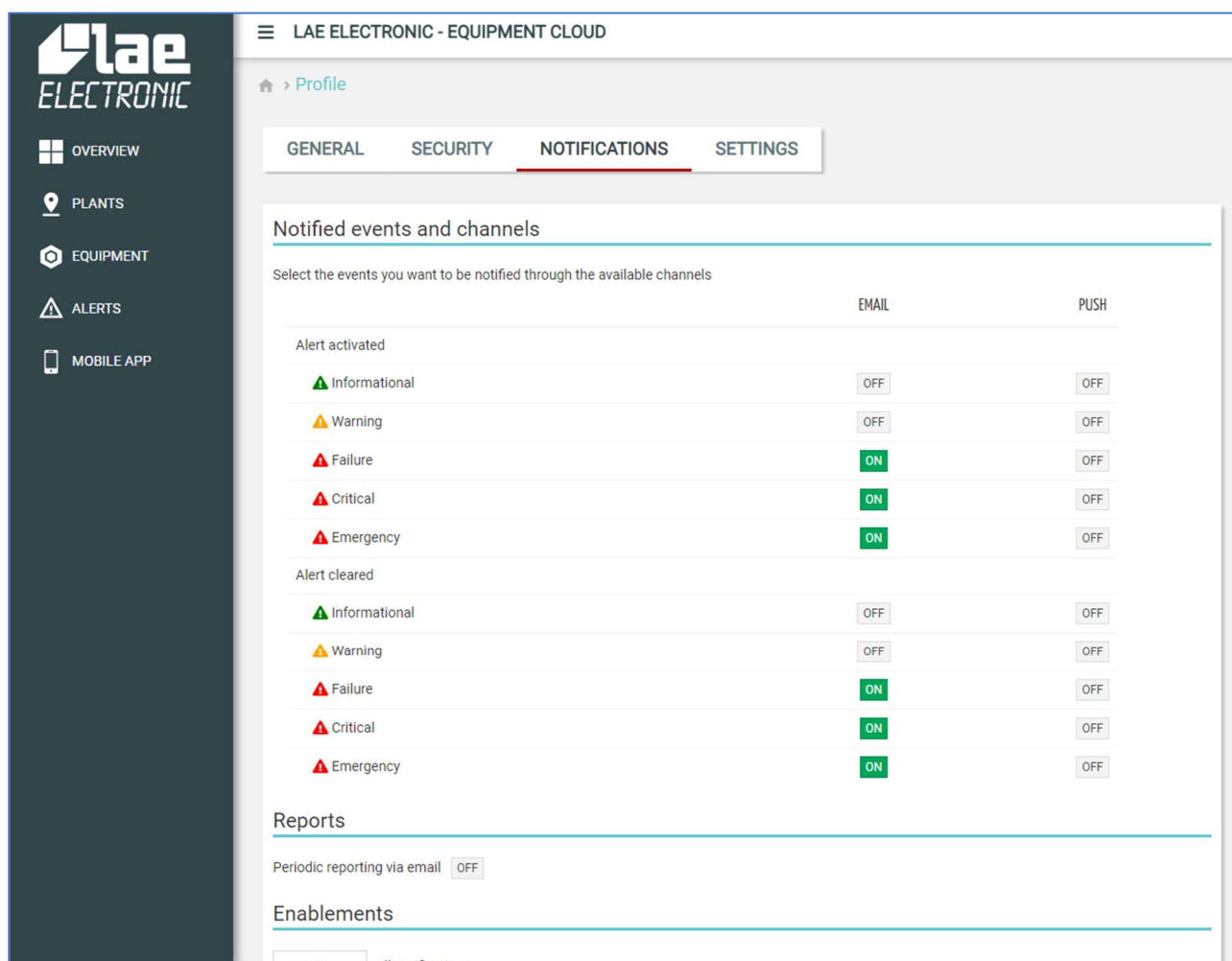


FIG. 39 PROFILE - NOTIFICATIONS

Select the notifications that you wish to receive via email and the ones that you wish to receive on the APP (push notification).

Click on “Save” to confirm.