



USER MANUAL

ENVISAFE LITE



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1. INTRODUCTION

EnviSafe Lite is an environmental parameter detection device that integrates various sensors. Its main applications are building automation and environmental monitoring. It is powered via a micro-USB port and is easy to mount on walls or ceilings.

The device can be connected to various Building Management Systems (BMS), home automation systems, and energy consumption monitoring systems via a Wi-Fi connection.

2. DATASHEET

TECHNICAL FEATURES	
Case	100 x 100 x 42 mm – Thermoplastic (ABS)
Mounting Options	Wall-Mounting: Screws, Velcro
Power Source	5VDC – Micro USB
Power Consumption	600mW (via WI-FI)
Configuration	Web Page / Modbus TCP
Wi-Fi Association	WPS / Web Page
WI-FI Interface	IEEE 802.11 b/g/n 2.4 GHz
Firmware Upgrade	OTA (HTTP/Web Page)
Operating Temperature	-20°C, 60°C

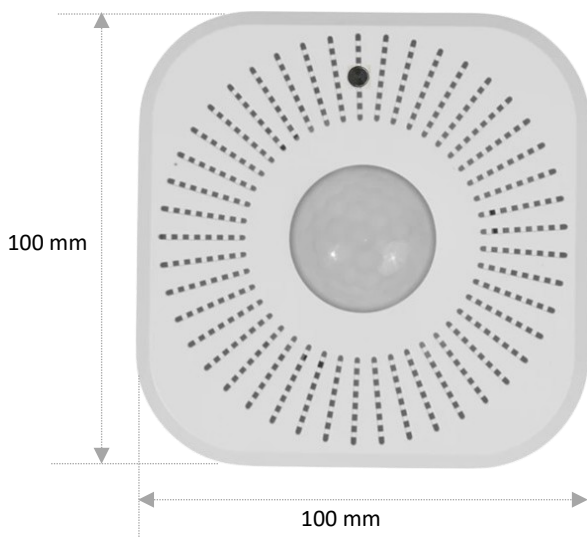


Fig. 1: Front-view of the device

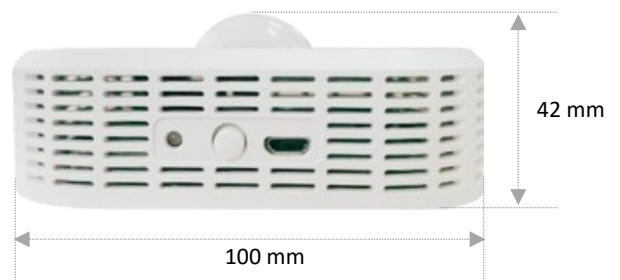


Fig. 1: Side-view of the device

3. MEASURES

MEASUREMENTS*	
Temperature	0°C to +50°C, ±0.35°C
Humidity	10% to 80% RH, ±3.5%
Luminosity	up to 128klx
Presence (PIR)	range 82° - 8m
Air Quality – TVOC	160ppb to 2000ppb, ±25ppb
Smoke Detection	Infra-red LED

* The accuracy of measurements is valid for 5 years. The long-term-drift to which the sensors may be subject considers only a proper use of the device, excluding any possible contact with dust, solvents, fluids, vapour and other substances and materials that can interfere and compromise the measurements.

3.1. Temperature and Humidity

Temperature and Humidity are sampled every 2 seconds and averaged between data transmissions.



WARNING:

DO NOT obstruct the holes on the enclosure.

3.2. Luminosity and White Light

Luminosity and White Light are sampled every 2 seconds and averaged between data transmissions.

The Luminosity value is filtered by a photo-diode with a frequency-response similar to the human eye, while the White Light is a channel with higher responsivity for a much wider wavelength spectrum.

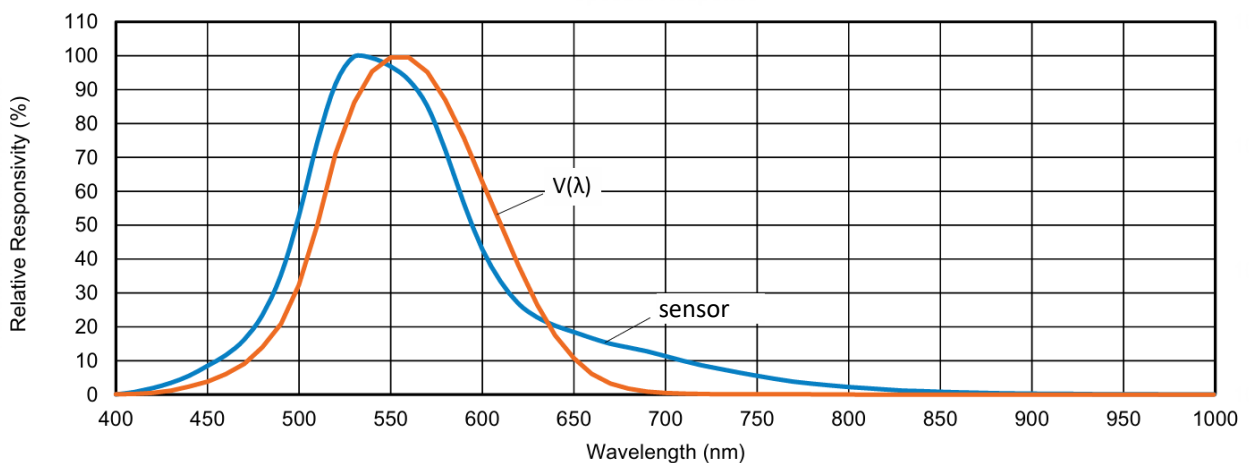


Fig. 3: Spectral Response, Ambient Light Sensor Channel

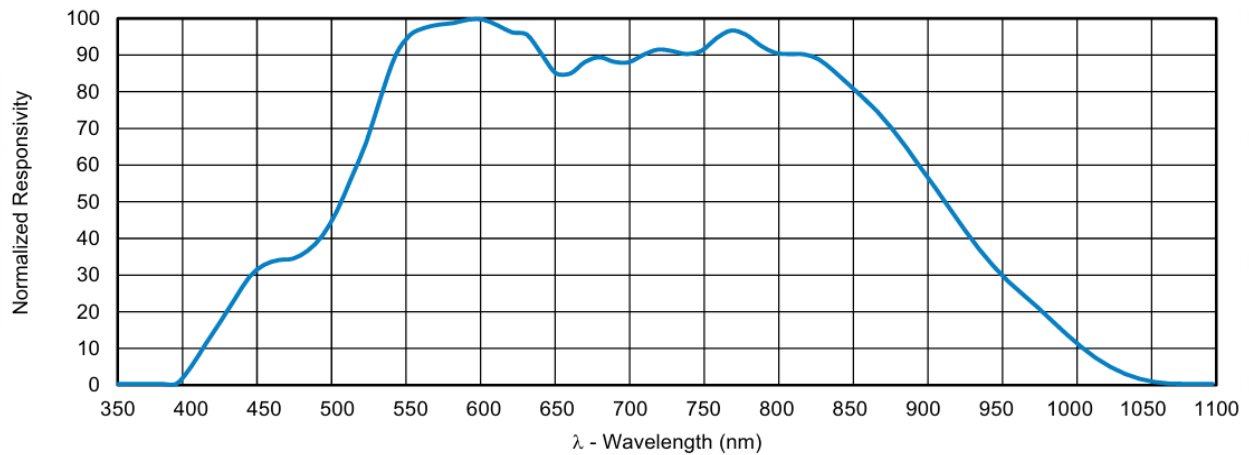


Fig. 4: White Channel Responsivity



WARNING:

DO NOT cover or shade the sensor and choose a suitable installation place.

3.3. Air Quality - TVOC

The Air Quality is measured as Volatile Organic Compounds concentration (TVOC). The measurement is updated every 5 seconds.

Volatile Organic Compounds (VOCs) are organic chemicals that have a high vapor pressure at ordinary room temperature. They include both human-made and naturally occurring chemical compounds. Most scent or odours are of VOCs. The measurement of their concentration in an indoor environment can be used as an index of air pollution and comfort of occupying people.

It is possible to establish a correlation between TVOC concentration and high levels of carbon dioxide (CO₂) due to human presence, thus calculating an estimate of CO₂ (eCO₂) based on VOC concentration.

Additionally, from the TVOC concentration, an Air Quality Index (AQI) is also calculated.



WARNING:

For accurate measures, the sensor needs to be powered-on and operating for at least twenty minutes. Do NOT place the sensor near heat sources that may affect the air quality measurement.

3.4. Movement Detection (PIR)

The detection is performed by a PIR sensor.

The coverage distance is 8 meters from the device. A 16-bits counter is incremented for each detection. When the counter value is read, it is reset to zero. Also, an everlasting counter is available. It is reset only after a power-off.

A time window can be set in order to ignore successive detections. After each detection a timer starts. Until it reaches the window interval no other PIR detections are counted.



WARNING:

Place the box in a vertical position on a wall or ceiling, with the sensor facing downward, so that the sensor can properly cover the room for motion detection.

3.5. Smoke Detection

An optical sensor detects the presence of smoke. The device does not distinguish between types of smoke; any dirt, dust, or obstruction of the device may prevent accurate detection.



WARNING:

For proper sensor operation, DO NOT cover or shade the sensor.

4. APPLICATIONS

EnviSafe Lite can be used for all applications involving Modbus TCP fields. In particular it is well suited for the following applications and markets:

- Energy metering
- Building automation
- Industrial automation
- Environmental monitoring
- Factory 4.0
- Domotics
- Workplace safety
- Surveillance
- Robotics
- Smart Cities

5. INSTALLATION



WARNING:

The installation procedure must be accomplished only by qualified personnels with a proved electrician qualification.

Adopt the specific safety precautions outlined in this manual for proper device installation.

5.1. Mounting and Powering

EnviSafe Lite can be installed on the ceiling or on a side wall. In the case of wall mounting, for proper coverage, the device must be mounted with the connector facing downward. On the back of the device there are the guides for the insertion of the screws for a quick assembly ([fig. 5](#)).

The device is powered through a Micro-USB port ([fig. 6](#)).



WARNING:

Make sure the device is properly mounted before connecting it to the power supply.



Fig. 4: Back of the device; guides for the insertion of the screws



Fig. 5: Micro-USB port for power

5.2. WI-FI Connectivity

EnviSafe supports Wi-Fi connectivity. To connect the device to the wireless network, you can perform the association as follows:

A. Manual association using the physical WPS button on the router and EnviSafe:

1. Turn on EnviSafe;
2. Press the button on EnviSafe for 3 seconds;
3. Press the WPS button on the router;
4. The EnviSafe LED is yellow and flashing, indicating the network search and association phase;
5. When the LED on EnviSafe stops flashing then the device is paired.

B. Association via EnviSafe Web Page (alternative or if there is no physical WPS button on the router):

1. Turn on EnviSafe;
2. Access the EnviSafe Web Page (if it's your first time accessing it, refer to [paragraph 5.3](#) for configuring access to the Web Page):
 - Log in as an administrator (see [paragraph 7.2](#));
3. From the navigation menu, go to the Administration section (see *Network and Wi-Fi > Wi-Fi Configuration*, [paragraph 7.4](#));
4. Proceed with the connection:
 - If using WPS (router with a physical WPS button):
 - Press the Activate WPS button to proceed with the association;
 - Follow procedure A, starting from step 3;
 - If using WPS (without a physical WPS button on the router):
 - Access the router's Web Page to enable the access point for the association by typing the router's IP address (usually 192.168.1.1 or 192.168.0.1) in the browser;
 - Enter login credentials (the default credentials are on the label on the back of the router);
 - Go to the network settings (usually in the *Wi-Fi Setup* or *Wireless Settings* section) and activate WPS via the virtual button (usually *Activate WPS*);
 - Press the *Activate WPS* button on the EnviSafe Web Page to proceed with the association;

- If using credentials:
 - Manually enter the SSID of the wireless network to which you want to connect the device and the WPA password (available on the back of the modem or consultable through its web interface);
 - Press the *Save Wi-Fi* button to save the settings;



WARNING:

The router's WPS mode is usually active for 120 seconds. If the connection is NOT established within this time frame, the WPS mode automatically disables for security reasons.

5.3. Web Page access Configuration

To access the EnviSafe Web Page, you need to configure your network. When the device is not yet associated with an access point, it functions as an access point itself:





1. Turn on EnviSafe;
2. Search for the device's network among the available networks: the SSID is *EnviSafeWifi_<MAC ADDRESS>*, where <MAC_ADDRESS> is the device's MAC address;
3. Enter the WPA password: the default password is *envisafe*;
4. Access the device's Web Page by entering the IP address *192.168.4.1* in the browser's search bar.



WARNING:

The SSID and WPA password associated to the device are default credentials. Once you complete the first login to the Web Page, you can connect the device directly to the local network.

5.4. LED

LED	DESCRIPTION	DETAILS
	Flashing	WI-FI data transmission
	Flashing	WPS pairing phase
	Flashing	Condition of no association with an access point
	Steady	Error condition (device malfunction)


6. MODBUS TCP PROTOCOL

All analog values related to the measurements taken by the sensors integrated in EnviSafe Lite are returned as IEEE 32-bit floating point numbers. For each analog measure one statistic is computed: it includes average, minimum and maximum value in the polling window, between a Modbus poll and the next one.

The device implements a Modbus server polling on port 502.

INPUT REGISTERS					
NOME	ADDR.	TYPE	LENGTH	UOM	DESCRIPTION
Temperature	0	Float	2	°C	
Humidity	2	Float	2	%	
Luminosity	4	Float	2	Lux	
White Light	6	Float	2	lux	
AQI	9	Uint16	1	[1..5]	Air Quality Index (UBA)
TVOC	10	Uint16	1	ppb	
eCO ₂	11	Uint16	1	ppm	(estimated CO ₂ from TVOC)
Alarms	21	Uint16	1		bit 0 = movement bit 1 = smoke (automatically reset after reading the register)
Product String	100	Char[]	4		
Firmware Version	104	Uint16	1		
Hardware Version	105	Uint16	1		
Sensors Status	106	Uint16	1		Bitmask (data valid: bit = 1): bit 0: Temperature + Humidity bit 1: Luminosity bit 2: Smoke bit 3: PIR bit 4: TVOC
Sensors Fault	107	Uint16	1		Bitmask (fault: bit = 1): bit 0: Temperature + Humidity bit 1: Luminosity bit 2: Smoke bit 3: PIR bit 4: TVOC
Uptime	108	Uint16	2	[min]	minutes
Temperature Min.	110	Float	2		
Temperature Max.	112	Float	2		
Humidity Min.	114	Float	2		
Humidity Max.	116	Float	2		
Luminosity Min.	118	Float	2		
Luminosity Max.	120	Float	2		
TVOC Min.	126	Float	1		
TVOC Max.	128	Float	1		
PIR Counter	130	Uint16	1		PIR detection counters from power-on
PIR Calibration	131	Uint16	1	[%]	PIR calibration status rate
Smoke Calibration	132	Uint16	1	[%]	Smoke calibration status rate
PIR_ADC_Val	134	Uint16	1		Debug only: PIR internal value
Smoke_ADC_Val	135	Uint16	1		Debug only: Smoke internal value

HOLDING REGISTERS					
NAME	ADDR.	TYPE	LENGTH	DEFAULT	DESCRIPTION
Serial Number	0	Char[]	4		Serial Number
Modbus ID	4	Uint16	1		Modbus Slave ID (not used)
SSID	5	Char[]	16		Current Access Point
WPA Key	21	Char[]	32		Current WPA Password
Cal_PowerUp_Flag	53	Bool	1		Calibrate at every power-on
PIR Offset	54	Uint16	1		PIR calibration constant
Smoke Offset	55	Uint16	1		Smoke calibration constant
PIR Thresh	57	Uint16	1	120	PIR sensibility threshold
Smoke Thresh	58	Uint16	1	8	Smoke sensibility threshold
PIR Persistence	60	Uint16	1	50	PIR persistence threshold
Smoke Persistence	61	Uint16	1	2	Smoke persistence threshold
Luminosity Offset	63	Float	2	0	Luminosity lightpipe compensation offset

Luminosity Coeff	65	Float	2	3	Luminosity lighpipe compensation factor
White Light Offset	67	Float	2	0	White Light lightpipe compensation offset
White Light Coeff	69	Float	2	3.36	White Light lighpipe compensation factor
Temperature Offset	71	Float	2	0	Temperature compensation offset
Temperature Coeff	73	Float	2	1	Temperature compensation factor
Humidity Offset	75	Float	2	0	Humidity compensation offset
Humidity Coeff	77	Float	2	1	Humidity compensation factor
Force Calibration	1000	Bool	1		Write 1 to force a re-calibration
Reboot	1001	Bool	1		Write 1 to force a reboot
Default Configuration	1002	Bool	1		Write 1 to force a reset of all configuration  WARNING! SSID, WPA Key and Calibration Values will be lost and reset to default.






7. WEB PAGE

The Web Page allows for configuration and administration of EnviSafe Lite. To configure the device, it is necessary to log-in to the Page as an administrator.

7.1. Dashboard Live Info

Upon each login, the user is presented with a dashboard displaying the results of measurements taken by EnviSafe Lite, with the page automatically refreshing every 3 seconds. The displayed values are derived from the real-time readings of the individual sensors integrated into the device, within the device's uptime interval (*uptime*).

LABEL	DESCRIPTION
Temperature	Temperature [°C]
Humidity	Humidity [%]
Luminosity	Luminosity [lux]
White Light	White Light [lux]
Air Quality Index	Air Quality Index based on TVOC level [mg/m ³]
TVOC	Concentration of Volatile Organic Compounds [ppb]
PIR / PIR Count	<p>Motion detection alarm:</p> <ul style="list-style-type: none"> ● NO motion detected ● ALARM: motion detected <p>The counter (<i>PIR Count</i>) indicates the number of alarms recorded by the device during its uptime, based on checks performed every 3 seconds (with automatic dashboard refresh).</p> <p>The <i>PIR Count</i> is reset each time the Web Page is accessed.</p>
Smoke	<p>Smoke detection alarm":</p> <ul style="list-style-type: none"> ● NO smoke detected ● ALARM: smoke detected <p>The sensor alarm status is checked every 3 seconds (interval for automatic dashboard refresh).</p>
Uptime	Device uptime [min].

AIR QUALITY INDEX				
	LEVEL		TVOC (mg/m ³) *	DESCRIPTION
	Very Good	1	<0.3	Very good air quality Clean air (ideal condition for health)
	Good	2	0.3 – 1.0	Good air quality Satisfactory air cleanliness (carries little or no health risk)
	Medium	3	1.0 – 3.0	Moderate air quality Perceptible comfort issues (exposure for NO more than 12 months)
	Poor	4	3.0 – 10.0	Poor air quality Significant comfort issues (exposure for NO more than 1 month)
	Bad	5	>10.0	Very poor air quality Unacceptable conditions for health (it is recommended to avoid any outdoor activities)

*Conversion from mg/m³ to ppm for many common TVOC is by the factor approximately 0.5 (e.g., 10mg/m³ equals approximately 5ppm). Conversion from ppm to ppb is by the factor 1000 (e.g., 0.1ppm equals 100ppb).

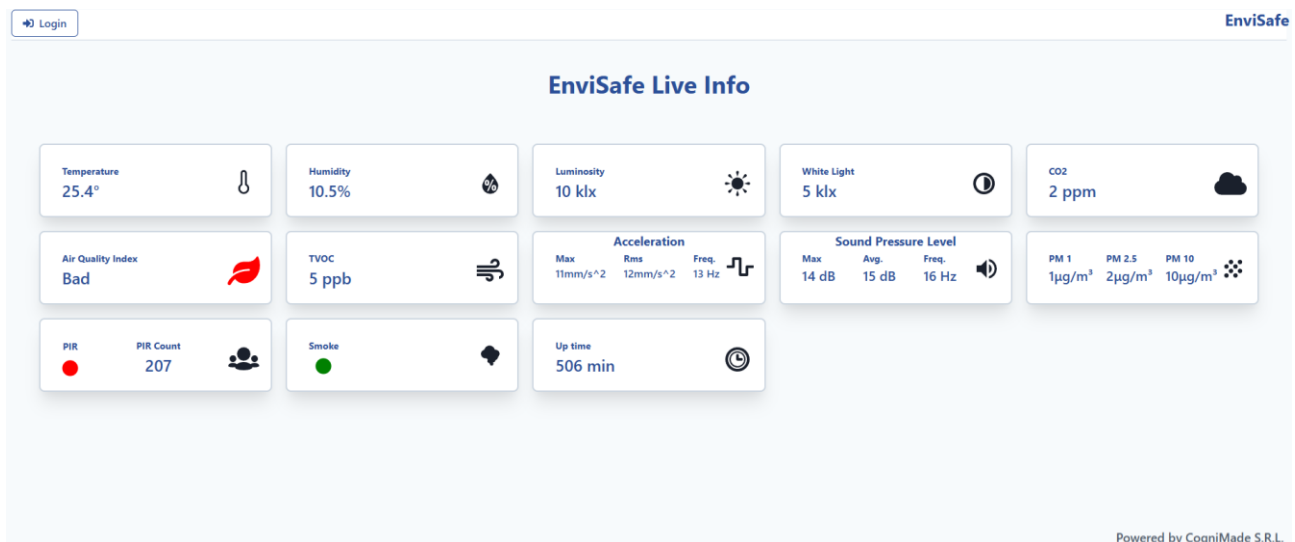


Fig. 7: Dashboard Web Page EnviSafe Lite**

**Some results shown in the following image refer to measurements taken by the full version of the device (ElviSafe). Therefore, values related to CO₂, Acceleration, Sound Pressure Level, and PM1/PM2.5/PM10 are NOT available for the Lite version of the product.

7.2. Login

To configure EnviSafe Lite via Web Page, the user must log-in to the Page as an administrator. The default password is admin. However, it is possible to personalize this password after the first login, within the *Administration* section of the Page (see [section 7.4](#)).



WARNING:

If the user forgets the personalized password required to access the Web Page, they can reset the password and restore the default one by holding the button on the side of the device for 10 seconds. Once access is restored, the password can be modified again.

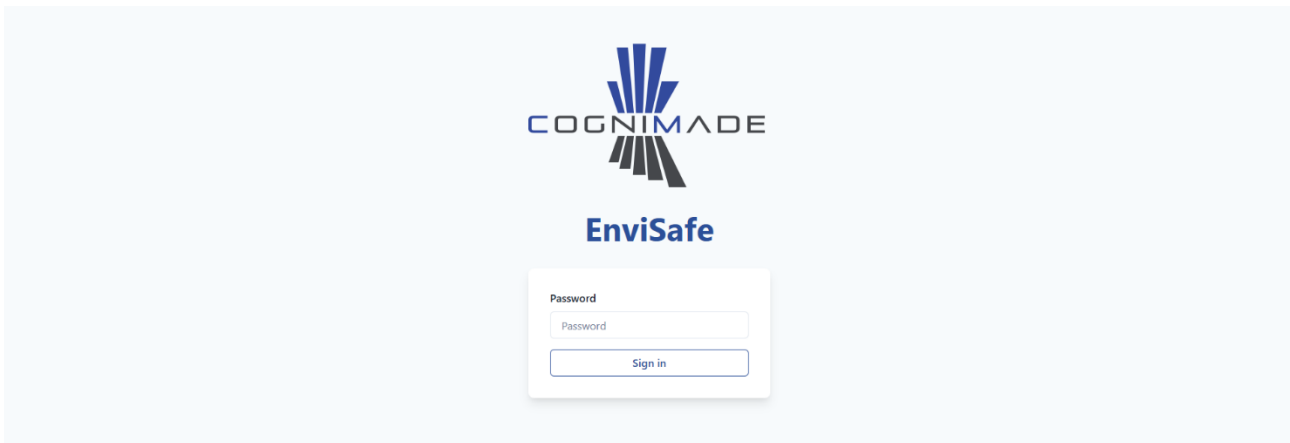


Fig. 8: Web Page login

7.3. Configuration

The page dedicated to device configuration (*Config*) allows the setting of custom coefficients and thresholds by modifying the default values so that the sensors integrated into the device can read and return measurements according to the user's specific needs.

The measurement returned by the device to the user (y) is the sum of the value read by the sensor (x), corrected according to the specific compensation factor (*coeff*), and the calibration constant (*offset*):

$$y = coeff * x + offset$$

The *Upper Threshold* is a limit that, when exceeded positively, or negatively in the case of the *Lower Threshold*, triggers an alarm event, meaning the transmission of a notification indicating that the threshold has been surpassed. For some measurements, the *Lower Threshold* is not available.

This section of the Web Page also allows you to manage the MQTT events related to the device's activity. The user can enable each sensor for data transmission (*Enable MQTT Events*) in case of an alarm or event, and set the time interval [s] that must pass between the sending of one notification and the next-one in case of a persistent event (*Event Mask Interval*).

In this specific section of the Web Page, the user can also perform other actions:

- *Force Calibration*: restarts the calibration of the smoke detector. This operation must be carried out in the absence of smoke.
- *Reboot*: to restart the device
- *Reset*: to restore the default configurations.



WARNING:

The reset with the restoration of default settings is applied to all calibration values. The reset is also applied to the WPS association settings, including SSID and WPA Key, as well as to Web Page access settings, restoring the default password.

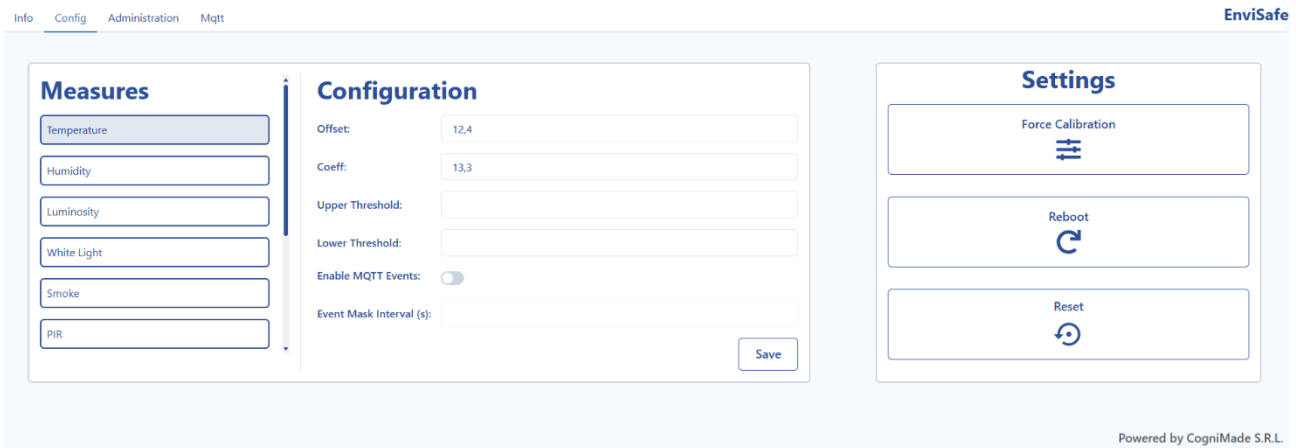


Fig. 9: Configuration page, Web Page

7.4. Administration

Administration is the section of the Web Page that allows the user to:

- View specific device information (*Device Info*), such as Firmware and Hardware version, product type (e.g., *Lite* version of the device), serial number, as well as the associated IP address and MAC address;
- View any sensor faults (*Sensor Fault*), with an alarm in case of malfunction;
- Change the login password for the Web Page (*Login Settings*);
- Perform a firmware update for the device (*Firmware Update*), by uploading a .bin file or searching for automatic updates online;
- Consult and configure the settings for connecting the device to a WI-FI access point, either through WPS mode (*Network and WI-FI – WI-FI Configuration*) or by setting the SSID and WPA password;
- Configure network settings such as IP address, Netmask, and Gateway (*Network Settings*).

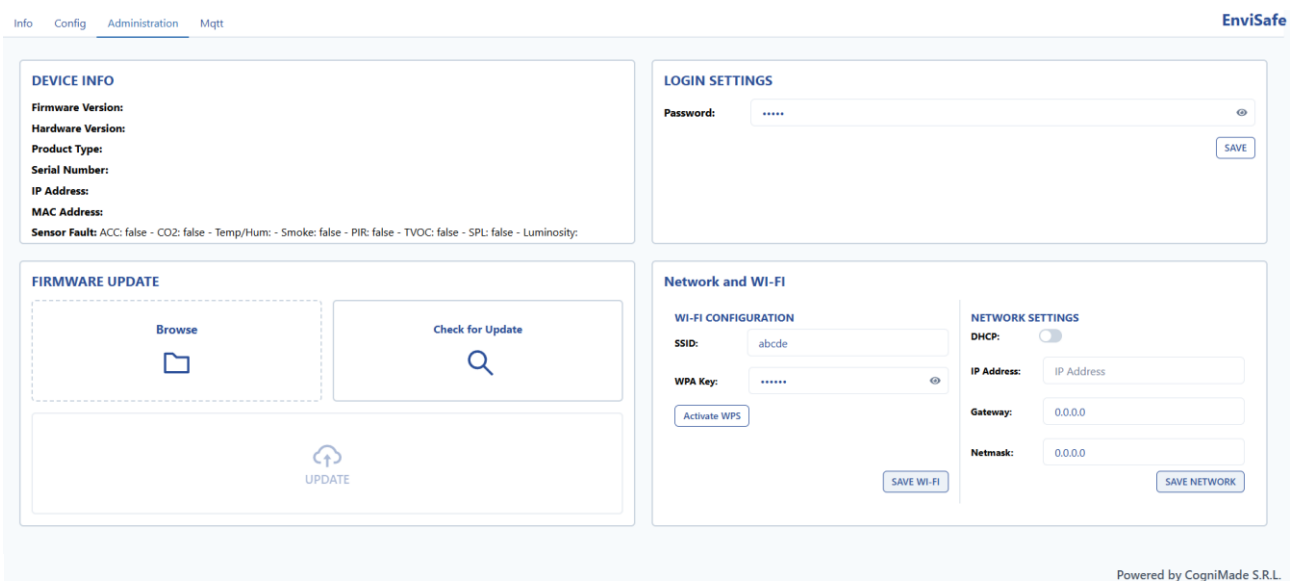


Fig. 10: Administration section, Web Page

7.5. MQTT Configuration

This section allows you to configure the device for data transmission using the MQTT protocol. It is possible to set a custom authentication method:

- Authentication with credentials (*Login*): username and password;
- Authentication via certificate (*Certificate*). Upload of three files is required: .CA, .crt, .key;
- *Plain*, without credentials or certificate.

For the MQTT configuration, and regardless of the authentication method selected, the user is required to enter the MQTT data transmission interval [s], the broker URL, and the topic. For more secure data transmission, the user can also enable the TLS transfer protocol.

The screenshot shows the MQTT Configuration web page. It includes a navigation bar with 'Info', 'Config', 'Administration', and 'Mqtt' tabs. The 'MQTT Mode' is set to 'Certificate'. The 'MQTT Interval' is 60. The 'Broker URL' is 'url' and the port is '3000'. The 'Topic' is 'TOPIC'. The 'TLS' toggle is off. There are three file selection boxes: 'Select .CA file', 'Select .crt file', and 'Select .key file', each with a folder icon. Below them is an 'UPLOAD' button with a cloud icon. A 'SAVE' button is at the bottom right. The footer says 'Powered by CogniMade S.R.L.' and the 'EnviSafe' logo is at the top right.

Fig. 11: MQTT Configuration, Web Page

8. TROUBLESHOOTING

PROBLEM DESCRIPTION	ACTION
The device is hot after powering it.	Unplug the power cable and contact CogniMade Srl.
The device seems to not turn on. Even after pressing the button, the LED does not light up.	Unplug the power cable and contact CogniMade Srl.
The device does not respond to Modbus queries.	Check the IP configuration for Modbus TPC and Serial Configuration for Modbus RTU.
The device does not respond with correct values or the output relay does not change its status.	Unplug the power cable and contact CogniMade Srl.

9. SAFETY PRECAUTIONS

The personnel responsible for installing, connecting cables for, commissioning, maintaining, troubleshooting and replacing CogniMade products should be qualified and trained to master the correct operation methods and the knowledge of safety precautions.



WARNING:

The safety precautions provided in this document do not cover all the safety precautions. CogniMade shall not be liable for any consequence caused by the violation of the safety operation regulations and design, production, and usage standards.

9.1. Personnel requirements

Operation personnel must meet the following requirements:

- Receive professional training;
- Read through this document and follow all the precautions;
- Be familiar with the safety specifications about the electrical system;
- Wear proper personal protective equipment (PPE) during any operation on the device, in compliance with laws and regulations in terms of personal health and protection.

9.2. Installation

During the installation of the device:

- Ensure that the device is not connected to a power supply or powered on before finishing installation.
- Ensure that the device is installed in a well-ventilated environment.
- Ensure that the device is well mounted, fasten to the wall with screws, before connecting it to the power supply.
- Ensure that the device is well mounted, fasten to the wall with screws, before let people walking under or in the same room where it is placed.
- DO NOT use damaged power cords or plugs, or loose electrical sockets.
- Before connecting cables to the device, ensure that it is secured in position and not damaged in any way. Otherwise, electric shocks or fire may occur.
- Ensure that all electrical connections comply with local electrical standards.
- High voltage may cause an electric shock, which results in serious injury, death or serious property damage from the device in operation. Strictly comply with the safety precautions.

9.3. Maintenance

Observe the following safety precautions during the maintenance of the EnviSafe Lite device:

- High voltage may cause an electric shock, which results in serious injury, death or serious property damage from the device in operation. Prior to maintenance, power off the device and strictly comply with the safety precautions.
- Temporary warning labels or fences must be placed to prevent unauthorized people entering the site.
- Observe electrostatic discharge (ESD) precautions during maintenance.

9.4. Usage

For a proper use of EnviSafe Lite:

- DO NOT open the device case. The warranty will be void if the case is opened.
- DO NOT scribble on, scratch, damage, or block any component of the device.
- DO NOT touch the connector of the case with wet hands.
- DO NOT cover the light/luminosity sensor.
- DO NOT drop or cause an impact to the device.
- DO NOT place the device near or inside heating devices of any kind.
- DO NOT use your device near pacemaker, as it can interfere with the pacemaker.
- DO NOT use your device in a hospital or near medical equipment that can be interfered with by radio frequency.
- DO NOT use your device in potentially explosive environments.

9.5. Cleaning

Observe the following cleaning precautions to avoid compromising the functionality of EnviSafe Lite:

- DO NOT spray the device with water or any detergent.
- DO NOT flush the device with water.
- DO NOT use liquid or steam jets near electrical components.
- DO NOT use abrasive cleaners, scouring pads or strong oxidizing agents on any part.
- DO NOT autoclave the device.
- Use a soft cloth or tissue and wipe the device external surface.



Important information for correct disposal of the product in accordance with EC Directive 2002/96/EC.
At the end of its working life, the product must not be disposed of as urban waste. It must be taken to a special local authority differentiated waste collection centre or to a dealer providing this service. Disposing of a household appliance separately avoids possible negative consequences for the environment and health deriving from inappropriate disposal and enables the constituent materials to be recovered to obtain significant savings in energy and resources. As a reminder of the need to dispose

10. DISCLAIMER

CogniMade shall NOT be liable for any consequences caused by any of the following events:

- Transportation damage.
- Violation of the storage requirement specified in this document.
- Incorrect storage, installation or use.
- Installation or use by unqualified personnel.
- Failure to obey the operation instructions and safety precautions in this document.
- Installation or use in environments which are not specified in related international standards.
- Operation in extreme environments which are not covered in this document.
- Operation beyond specified ranges.
- Unauthorized modifications to the product or software code or removal of the product.
- Device damage due to force majeure (such as lightning, earthquake, fire and storm).
- The warranty expires and the warranty service is not extended.

11. CONFORMITY DECLARATION

EnviSafe Lite satisfies the relevant and mandatory CE directive 2014/53/EU with the application of the following product standards (for details see [Annex A – Declaration of Conformity](#)):

STANDARD	TITLE
EN 62311:2008 IEC 62311:2007	Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz – 300 GHz)
EN 61010-1:2010 IEC 61010-1:2010	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements
EN 301 489-1 V2.2.3	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements; Harmonised Standards for Electromagnetic Compatibility
EN 301 489-17 V3.2.4	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for Broadband Data Transmission Systems; Harmonised Standards for Electromagnetic Compatibility
EN 300 328 V2.2.2	Wideband transmission systems; Data transmission equipment operating in the 2.4 GHz band; Harmonised Standard for access to radio spectrum

12. WARRANTY

Subject to the exclusions contained below CogniMade Srl, warrants EnviSafe Lite to be free from defects in materials and workmanship under normal consumer usage for a period of one (1) year from the date of original purchase.

This Limited 1 Year Warranty is a consumer’s exclusive remedy and is subject to the following exclusions:

NORMAL WEAR AND TEAR	Periodic maintenance, repair and replacement of parts due to normal wear and tear.
ABUSE AND MISUSE	Defects or damage that result from: <ul style="list-style-type: none"> • Improper operation, storage, misuse or abuse, accident or neglect, such as physical damage (cracks, scratches, etc.) to the surface of the product resulting from misuse; • Wrong power source voltage, or power source overvoltage and overcurrent events, also for a limited amount of time; • Contact with liquid, water, rain, extreme humidity or heavy perspiration, sand, dirt or the like, extreme heat, or food; • Use of this product(s) for commercial purposes or subjecting the product(s) to abnormal usage or conditions; • Other acts which are not the fault of EnviSafe Lite.
UNAUTHORIZED MODIFICATION	Defects or damages resulting from services, testing, adjustment, installation, maintenance, alteration or modification in any way by someone other than CogniMade Srl or its authorized service centers.
ALTERED PRODUCTS	<ul style="list-style-type: none"> • Products or accessories with serial numbers or date tags have been removed, altered, or obliterated; • Broken seals or that show evidence of tampering; • Mismatched board serial numbers; • Non-conforming or different housings, or components.

COMMUNICATION INTERFACE	Defects, damage or the failure of products caused by improper use of the communication interface, interferences, electrical discharges, electromagnetic interferences on the communication cables.
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If CogniMade Srl deems the claim to be warrantable, it will, at its sole option, repair, replace or refund the purchase price of any EnviSafe Lite products. Product replacement will be with a functionally equivalent reconditioned / refurbished / pre-owned or new product, accessory or part.

You will receive instructions on how to ship any products or accessories at your expense, to an authorized repair center. To obtain service, you must include:

- a copy of your receipt, bill of sale or other comparable proof of purchase;
- a written description of the problem;
- the location where the device was installed, with the address;
- phone number and email address.

13. ASSISTANCE

For assistance or support contact CogniMade Srl using the following contacts:

- E-mail address: support@cognimade.com
- Phone number: (+39) 0239286731

ANNEX A

EC Declaration of Conformity



CogniMade s.r.l.
Via Cristoforo Colombo, 10/A
20066 Melzo (MI)
P.IVA e C.F.09277650967

REA 2080304
Reg. Imprese di Milano
Cap. Soc. €10.000
<http://www.cognimade.com>

EC Declaration of Conformity

According to RED directive 2014/53/EU

The undersigned Leonardo Costa declares under its sole responsibility that the following product:

Name: **EnviSafe Lite**

Revision: **1**

Description: **Building automation device with sensors for environmental parameters, with radio Wifi 2.4 GHz connectivity**

manufactured by:

CogniMade Srl – via Cristoforo Colombo, 10/A – 20066 Melzo (MI)

complies with the essential requirements of the EU directive:

Directive 2014/30/EU (RED)

The following harmonised standard and technical specifications have been applied:

Data transmission equipment operating in the 2,4 GHz ISM band and using wide band modulation techniques:

EN 300 328 V2.2.2

Electromagnetic Compatibility standard for radio equipment:

EN 301 489-1 V2.2.3

EN 301 489-17 V3.2.4

Safety requirements for electrical equipment for measurement, control, and laboratory use:

EN 61010-1:2010

IEC 61010-1:2010

Human exposure restrictions for electromagnetic fields (0 Hz -300 GHz)

EN 62311:2008

IEC 62311:2007

Melzo (MI), Italy – December 13th, 2024

Leonardo Costa – Managing Director

CogniMade Srl

Via Cristoforo Colombo 10/A, 20066 Melzo (MI), Italy

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