SALTO IQ303 Gateway Device System Installation Guide

Contents

SALTO IQ303 Gateway Device System

Specifications

- **Device Type:** Gateway
- **Communication:** Nebula to SALTO BLUEnet
- **Features:** SVN (SALTO Virtual Network)
- **Interfaces:** Ethernet, WIFI (*), Bluetooth, RS-485
- **Weight:** 225g
- **Dimensions:** 122.5mm (4-13/16″)

Product Usage Instructions

- The IQ3 device can be installed on the ceiling or wall with hidden cable connections. Follow the provided wiring diagram for proper installation.
- For desktop installation, refer to the wiring diagram provided. Ensure the device is securely placed on the desktop for stable operation.
- Depending on the model, connect the device using Ethernet, WIFI, or Ethernet + POE. Use the provided wiring diagram for proper communication setup.
- For RS-485 communication, ensure the bus termination resistor is correctly set based on the node’s position in the bus. Use a tool, like pliers, for jumper manipulation as needed.
- For power supply (except PoE), refer to the external power supply characteristics provided in the manual for proper voltage and current requirements.

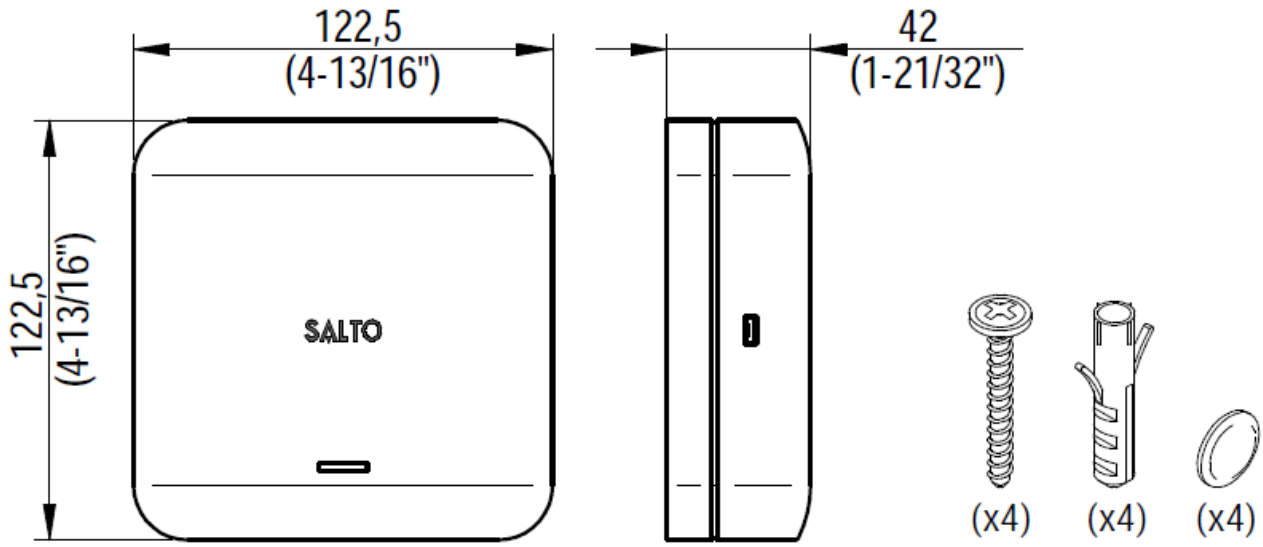
FAQ

- **Q:** What are the available interfaces on the IQ3 device?
- **A:** The IQ3 device is equipped with Ethernet, WIFI (*), Bluetooth, and RS-485 interfaces depending on the model.
- **Q:** How should I configure the RS-485 communication on the IQ3 device?
- **A:** Follow the wiring diagram provided and ensure the bus termination resistor is set correctly based on the node’s position in the bus. Use a tool for jumper manipulation if needed.
- **Q:** What are the installation options for the IQ3 device?
- **A:** The IQ3 device can be installed on the ceiling, wall with hidden cable connections, or on a desktop following the provided instructions and wiring diagrams.

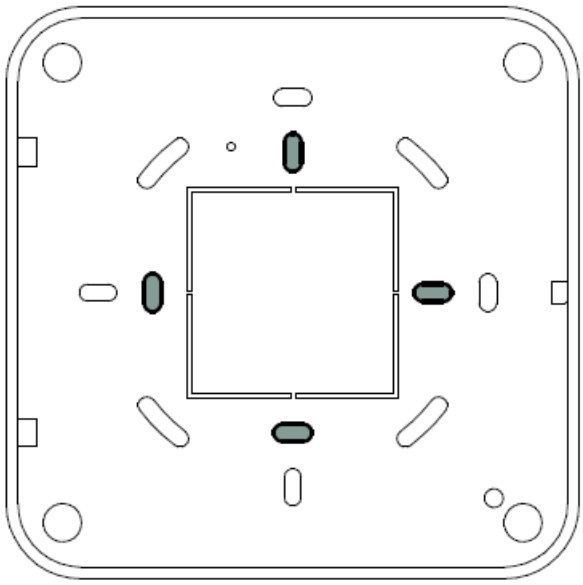
Installation guide

- The IQ3 is a Gateway device that ensures the communication between Nebula and the SALTO BLUEnet devices providing the SVN (SALTO Virtual Network) features.
- It is equipped with an Ethernet, WIFI (*), Bluetooth, and RS-485 interface.
- (*) Depending on the model.

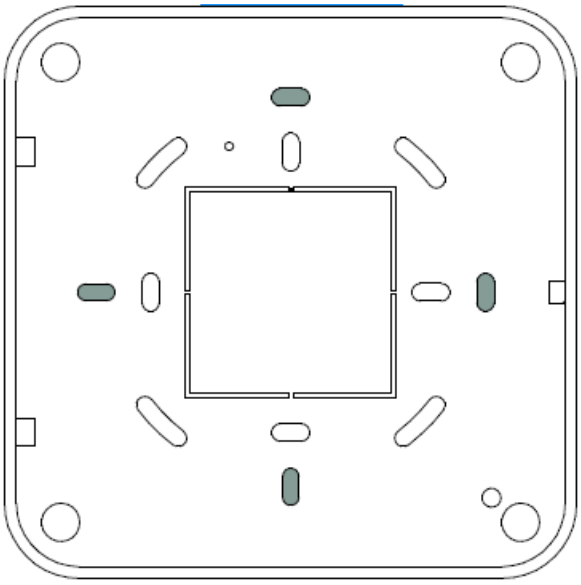
Dimension



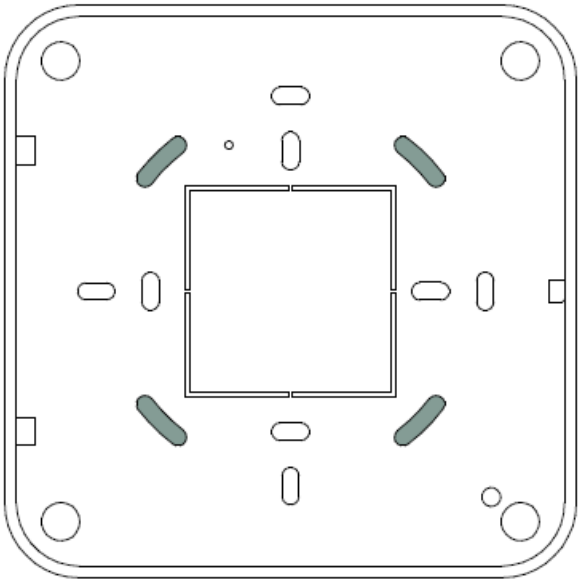
EUROPE EUROPA



NORTH AMERICA

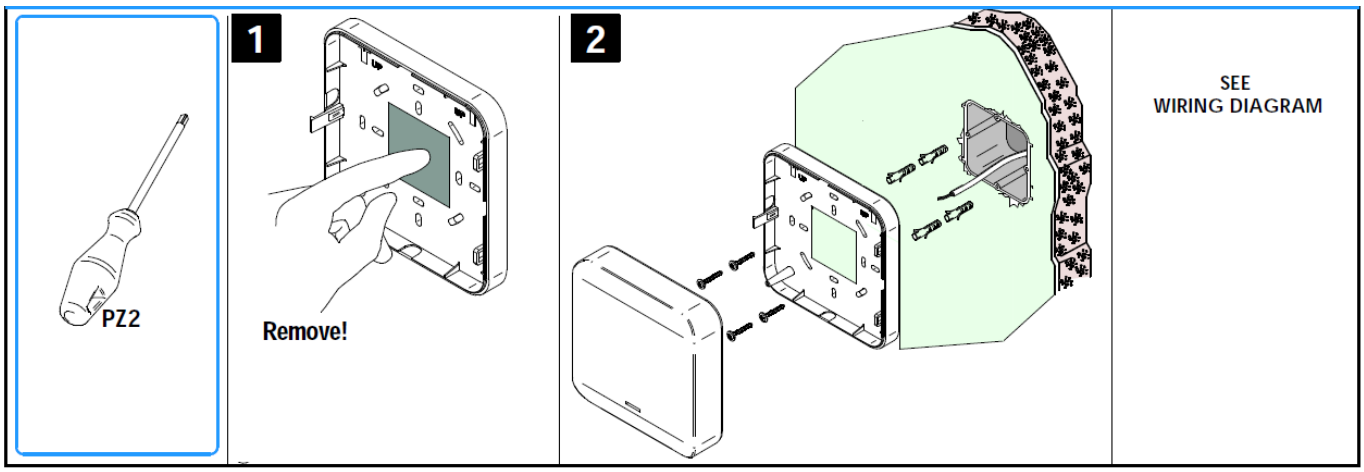


SWISS

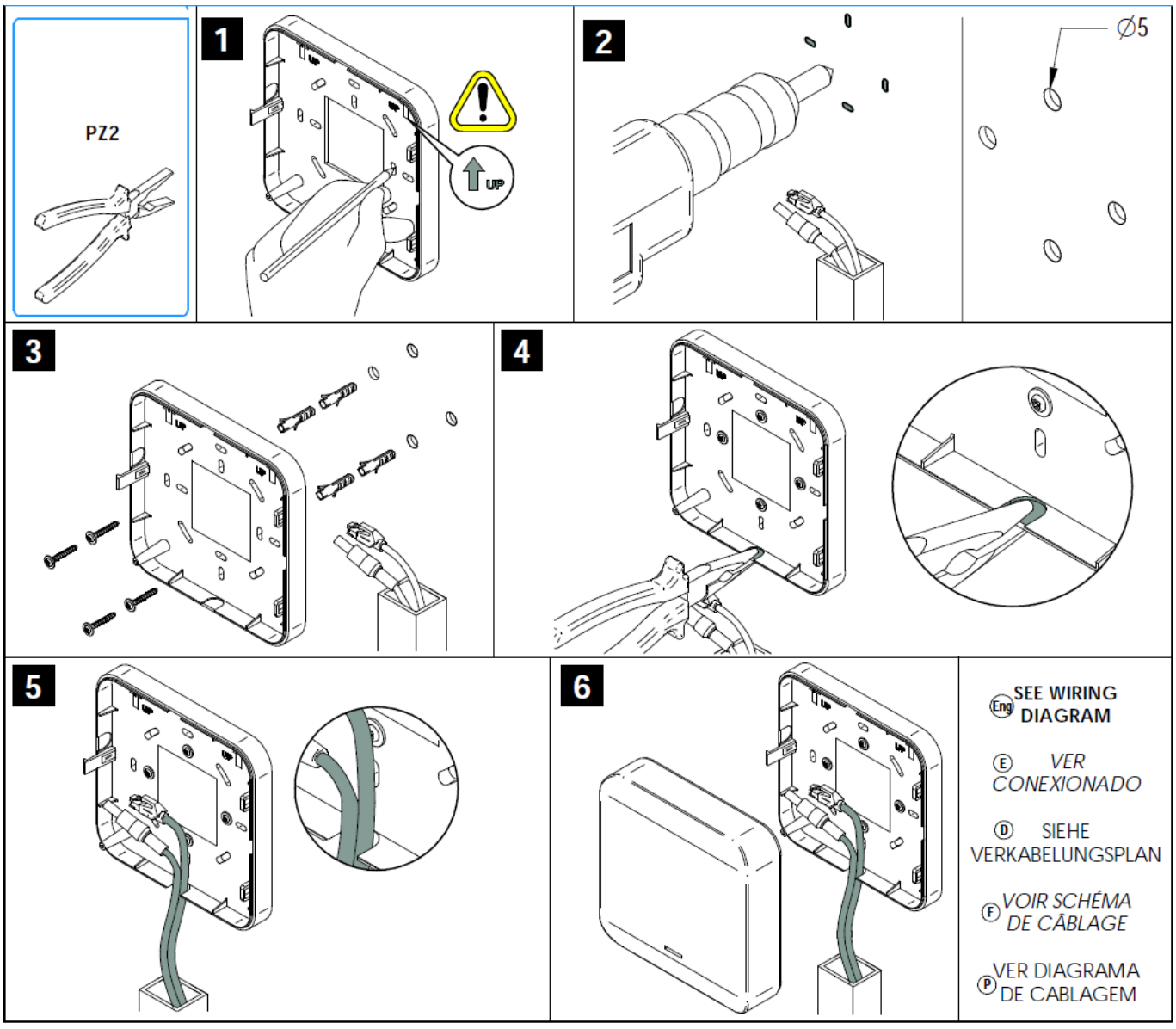


Installation

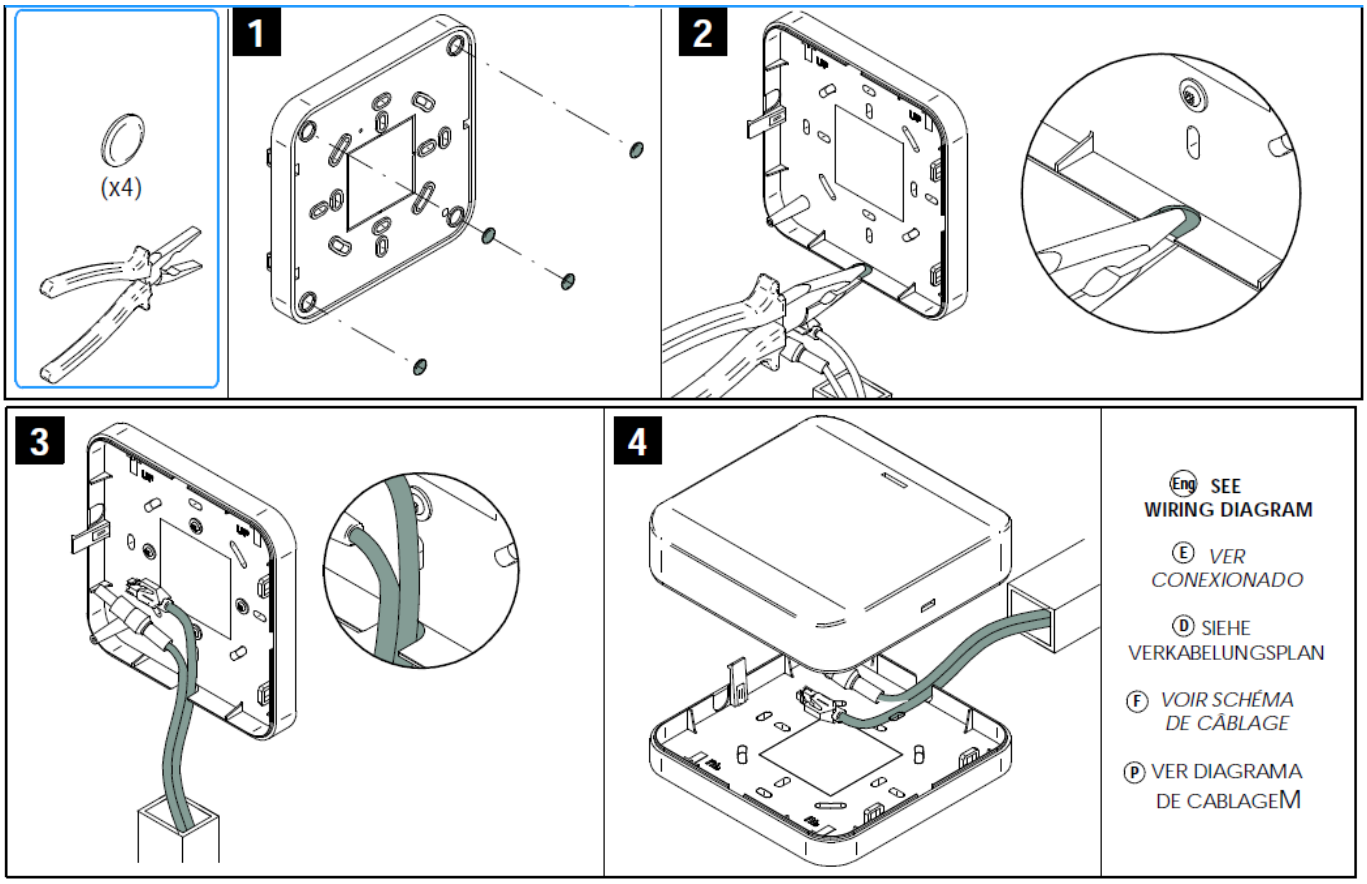
CEILING/WALL INSTALLATION WITH HIDDEN CABLE



CEILING/WALL INSTALLATION WITH EXPOSED CABLE

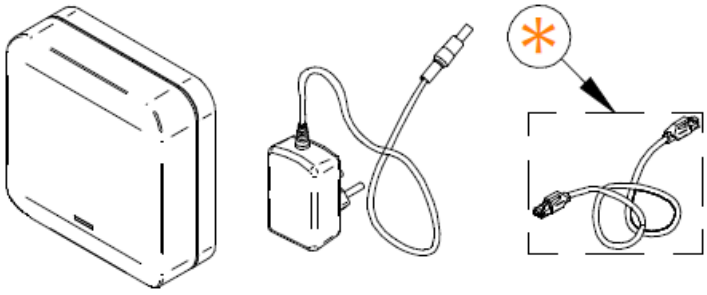


DESKTOP INSTALLATION

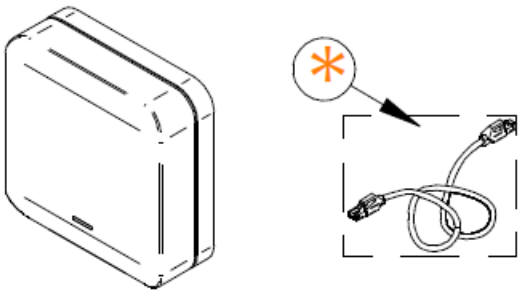


Wiring

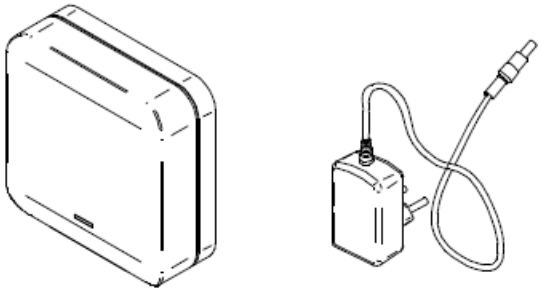
ETHERNET MODEL



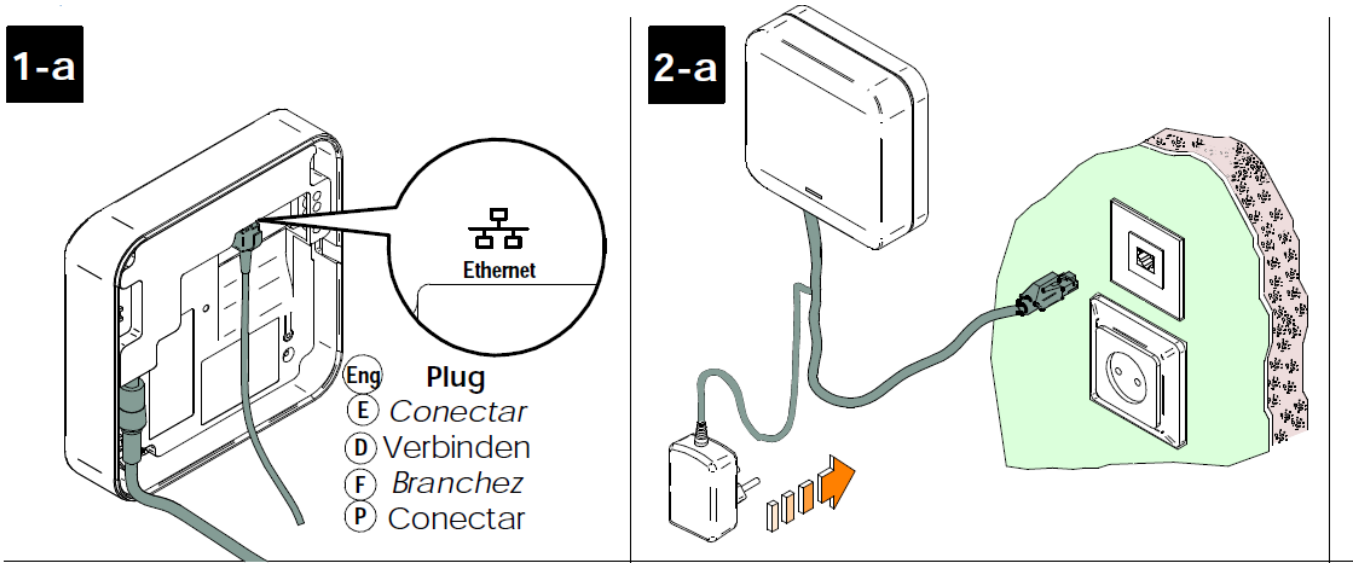
ETHERNET + POE MODEL



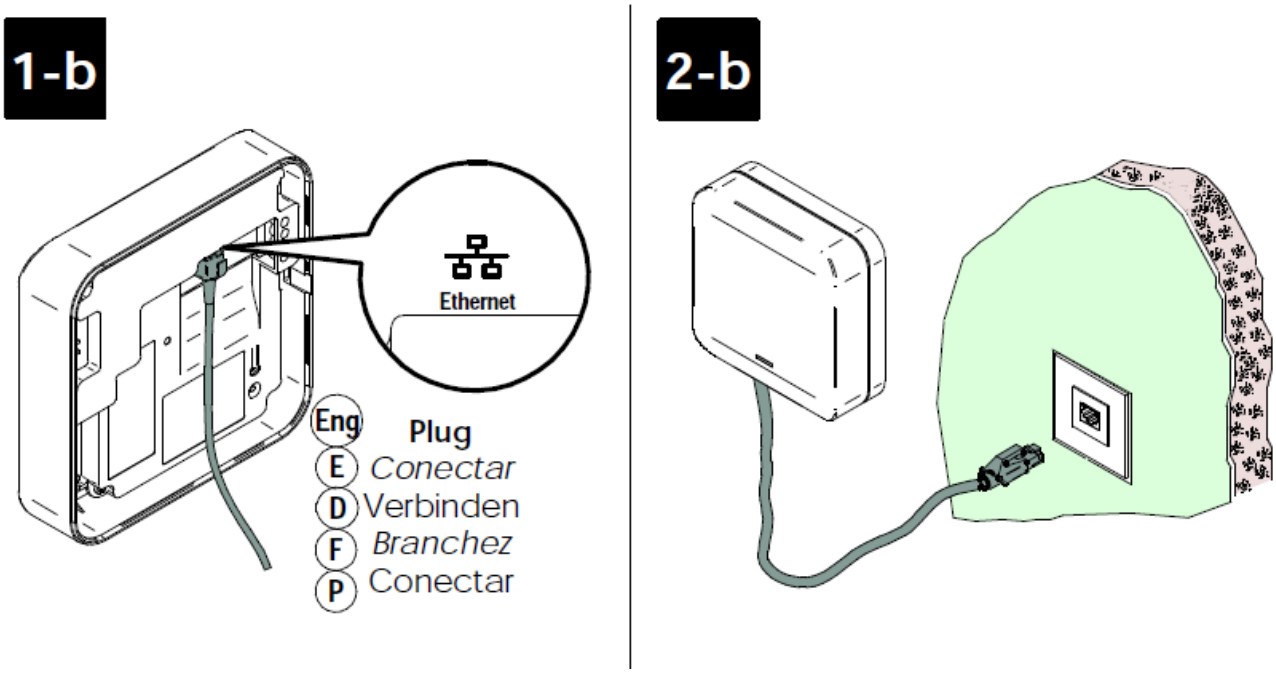
ETHERNET + WIFI MODEL



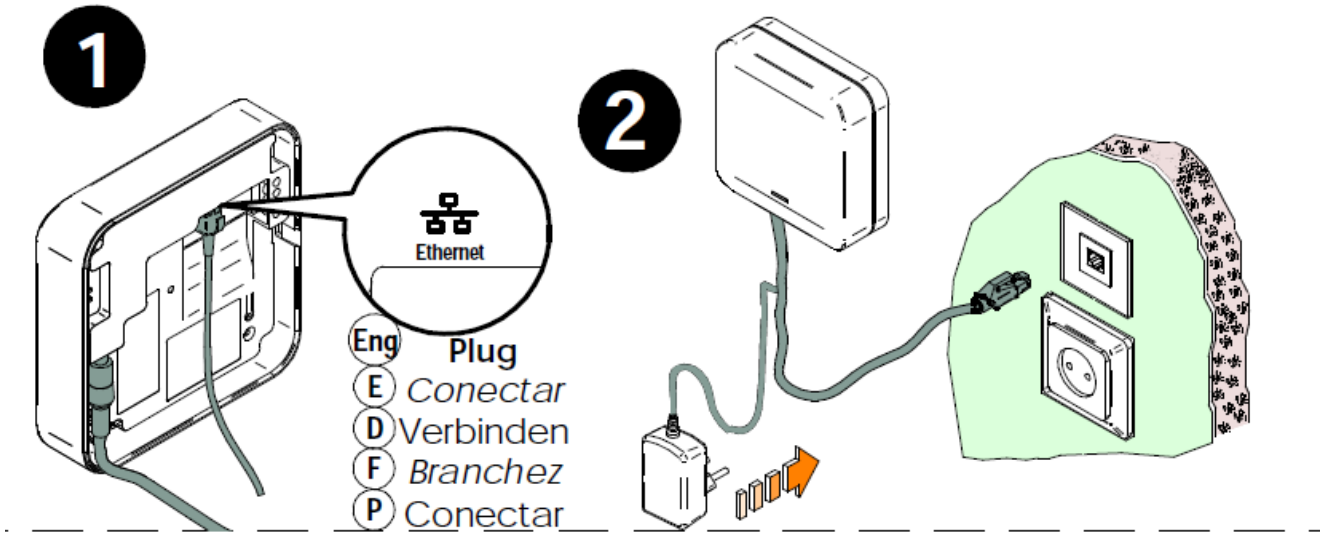
ETHERNET MODEL



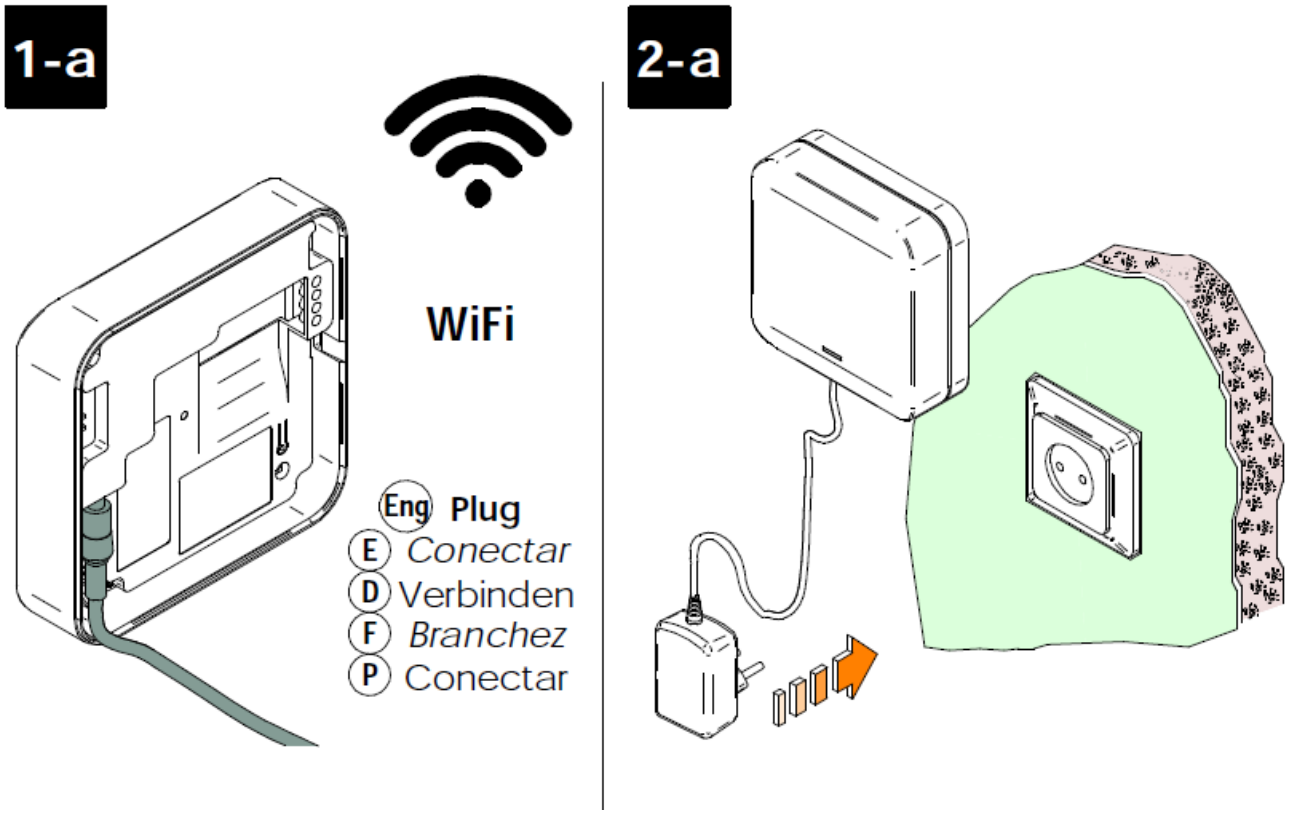
ETHERNET + POE MODEL



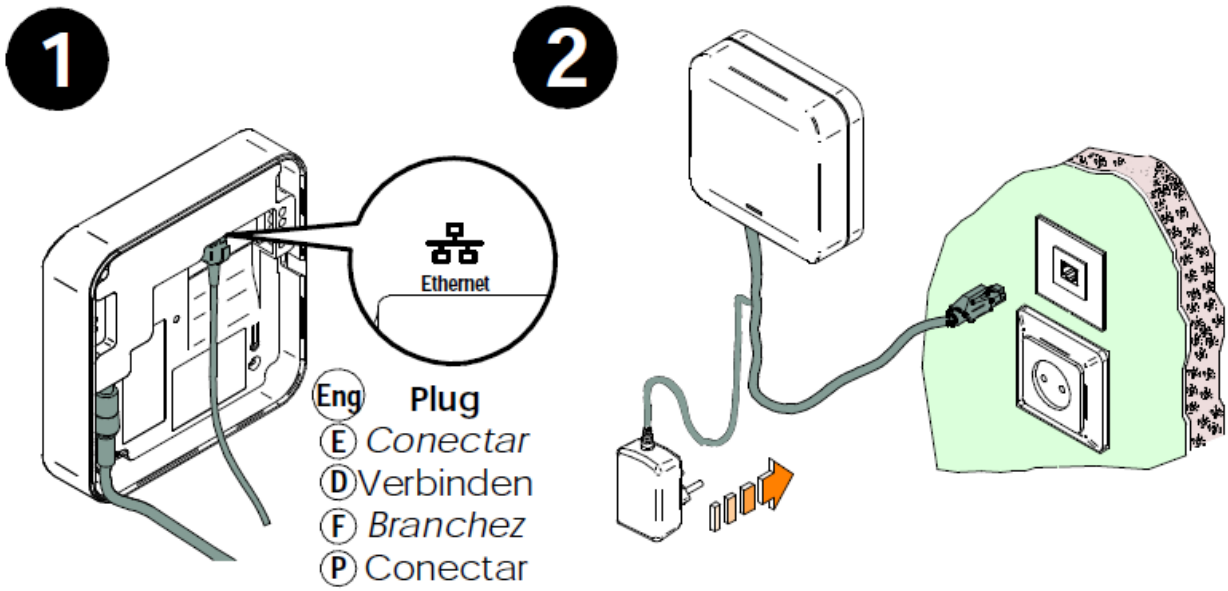
- If there is no PoE infrastructure, use an auxiliary power supply



ETHERNET + WIFI MODEL

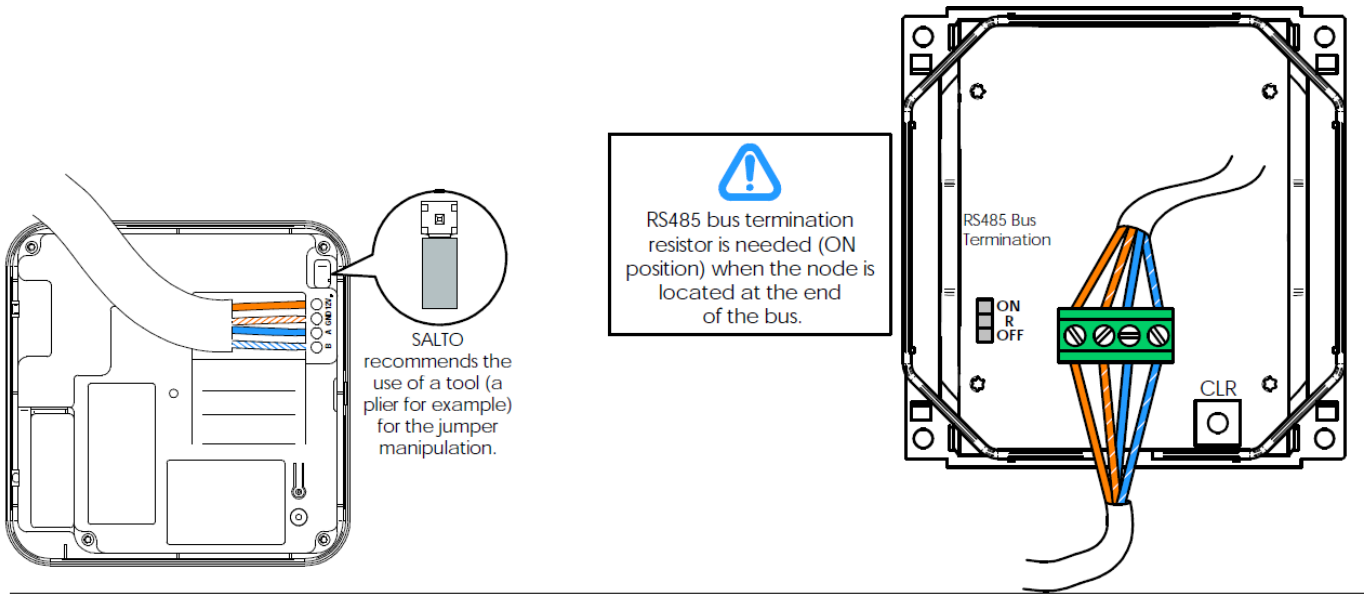


- If you do not connect to a WIFI network, connect the Ethernet cable.

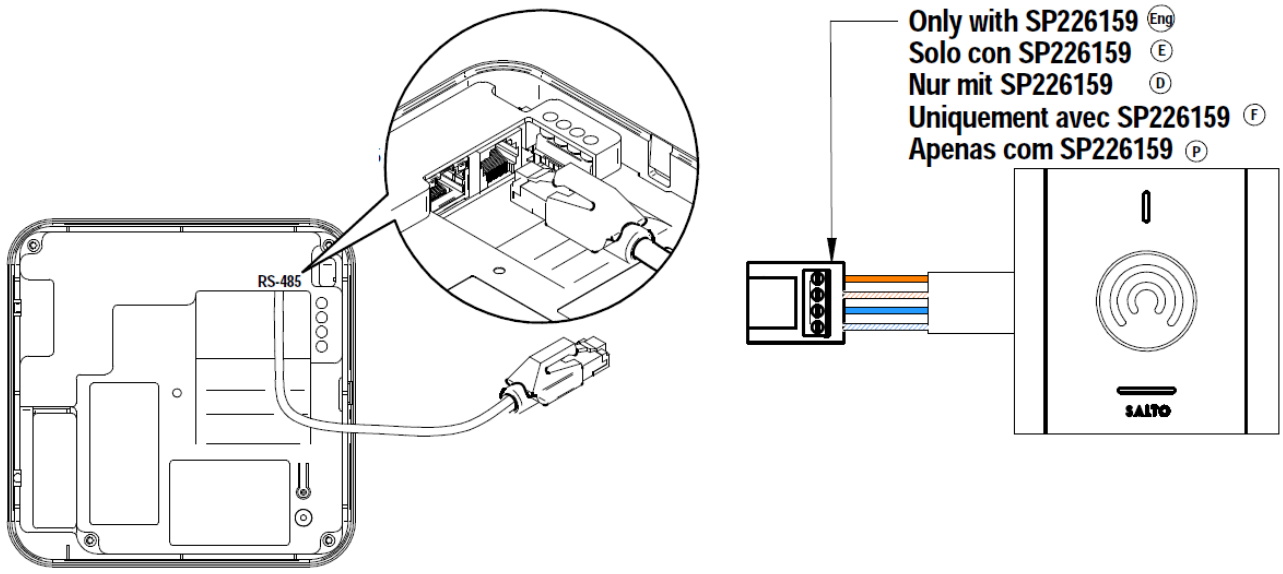


COMMUNICATION WIRING DIAGRAM IN IQ3/SALTO Node

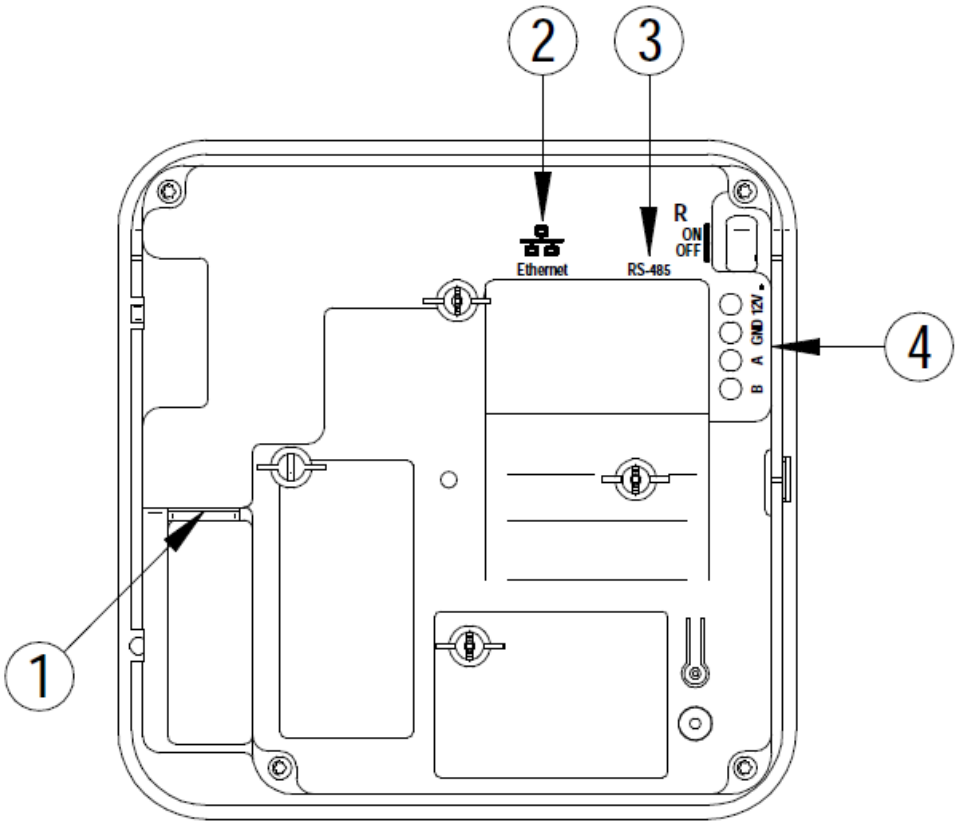
- RS485 CONNECTION TO TERMINAL



RS485 CONNECTION WITH CABLE JACK



1. Power (except PoE).
2. Ethernet.
3. RS485 (Jack cable).
4. RS485.



Electrical Features

EXTERNAL POWER SUPPLY CHARACTERISTICS			
	Min	**Max**	**Typ**
Input Voltage	12-5%V	12+5%V	12V
Max Input Power	15w		
Current Consumption*		200mA	60mA

- Excluding RS485 Nodes.
- Power supply must be calculated taking into account SALTO Nodes' current consumption.

CABLE REQUIREMENTS	
Ethernet	UTP CAT5e
Node Connection	Employing Terminal Blocks: Generic twisted pair
	Through RJ45: UTPCAT5e

OPERATING CONDITIONS		
	Min	**Max**
Temperature	0ºC	60ºC
Humidity	0	95% (Non condensing)

SALTO BLUEnet CHARACTERISTICS	
Frequency Range	2400 MHz to 2483.5 MHz
Standard	Bluetooth 5.2 Compliant
TX power	8dBm
Indoor Range	10 – 15m *

WIFI CHARACTERISTICS	
Frequency Range	2400 MHz to 2483.5 MHz
Standard	IEEE 802.11b/g/n compliant
TX power	16dBm
Range	25 – 30m *

- Depending upon the installed environment.

- To ensure correct operation, do not install the device near a metallic surface.

MAX. NUMBER OF DEVICES TO BE CONNECTED	
SALTO Nodes	6
Access points	112

PoE	
PoE Norms:	IEEE 802.3af / IEEE 802.3at
PoE Class	0

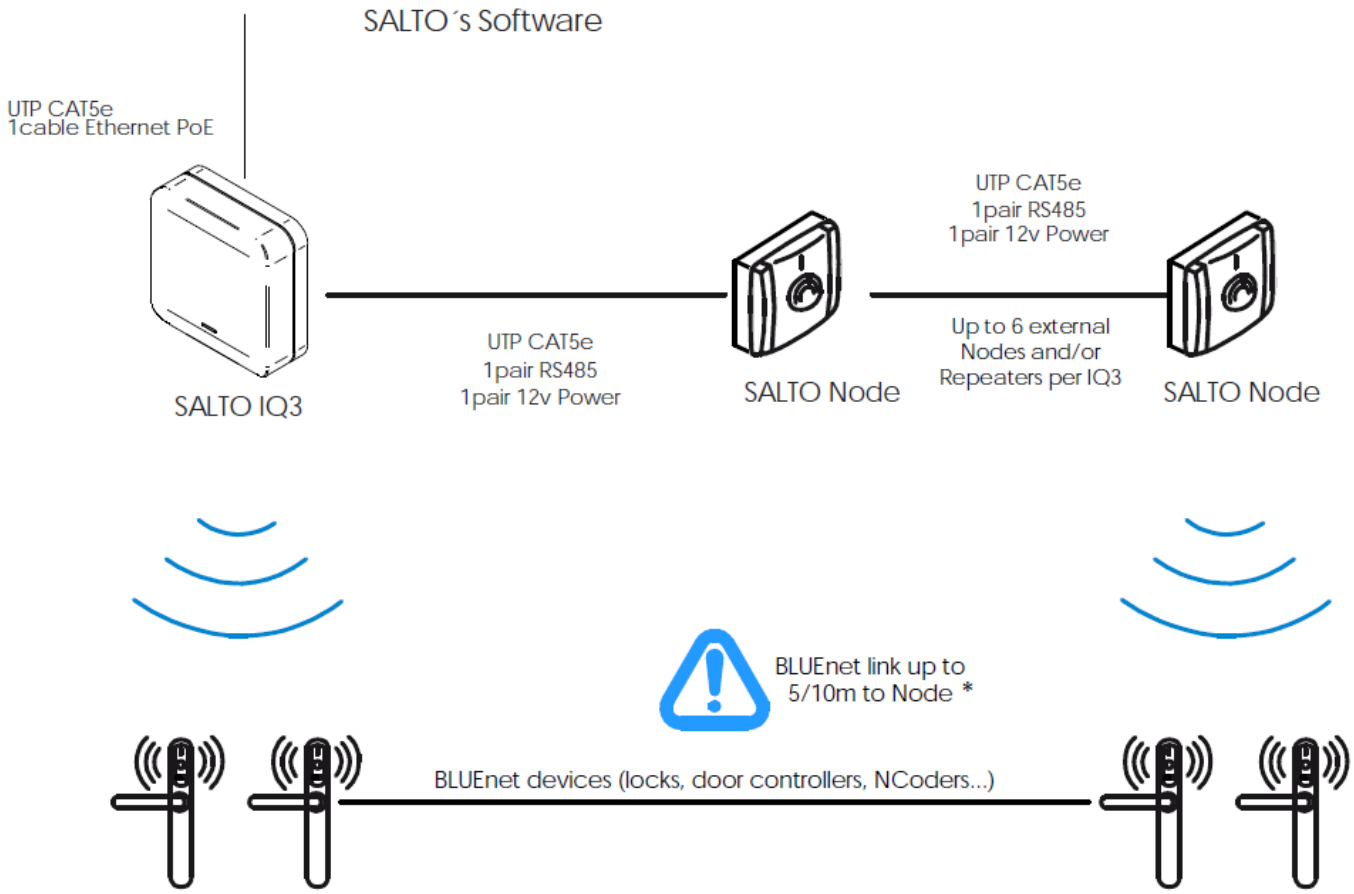
- The environment has a direct impact on the BLUEnet range radiation (metal, concrete walls…)
- The receiver device must be located facing the product antenna. Please check your product's BLUEnet antenna position.
- Recommended connectivity distance: 10m – 15m

Configuration

1. The device is configured using the Nebula App.
2. Ethernet test: without any type of setup, the IQ3 is a DHCP-ready device. If your network supports it, it is possible to check the Ethernet connectivity by pinging the address SALTO-IQ3-XXXXXX(XXXXXX corresponds to the final 6 digits of MAC).

Installation example

- Maximum number of SALTO Nodes: 6
- Maximum number of access points: 112



Signals

LED MODE	LED COLOUR	STATUS INDICATION
Blink long RED		Device ex works. It will be doing advertising.
Blink short RED (3 seconds)		Identification signal when selected from a mobile phone. The signal lasts 3 second.
Blink long BLUE		Device initializated with communication to the server.
Blink short YELLOW		Device not communicating with the server.
Blink long GREEN		Connection established to a mobile phone.

Blink short GREEN		Initialized and in programing mode. It is doing advertising while waiting for a mobile connection.

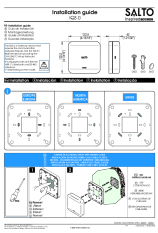
Operational test

1. Check that the red light turns on.
2. If you have connected to Ethernet, check that the lights on the RJ45 turn on.

All contents were current at the time of publication.

SALTO Systems S.L. reserves the right to change the availability of any item in this catalog, its design, construction, and/or materials.

Documents / Resources

	SALTO IQ303 Gateway Device System [pdf] Installation Guide IQ303 Gateway Device System, IQ303, Gateway Device System, Device System, System

References

- User Manual