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SALTO GATEWAYW3CAUS Bluenet Wireless Gateway Installation Guide

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Installation guide
SALTO Gateway
MODEL: ELECTRONIC INFO. RFnet Gateway – BLUEnet Gateway

Contents

Description

The Gateway is the link between the PC and SALTO's wireless network SALTO RFnet or SALTO BLUEnet (wireless escutcheons). It gives real-time information to the PC. Gateways are completely managed through the SALTO Software, it collects all the information sent by escutcheons that belong to the Gateway. It has been designed with PoE technology, capable of power the SALTO Gateway through Ethernet infrastructure.

			Power
			Ethernet
			RS485 bus to Nodes

SALTO´s Software

*Ethernet UTP CAT5e

*RS485 Bus
*Power Supply
UTP CAT5e

*RS485 Bus
*Power Supply
UTP CAT5e

Up to 6 External RF Node per SALTO Gateway

SALTO Gateway

SALTO Node

SALTO Node

(if PoE not available)

(if internal node installed)

Optional adapter

Up to 112 SALTO RFnet Lock per SALTO Gateway (16 per SALTO Node)
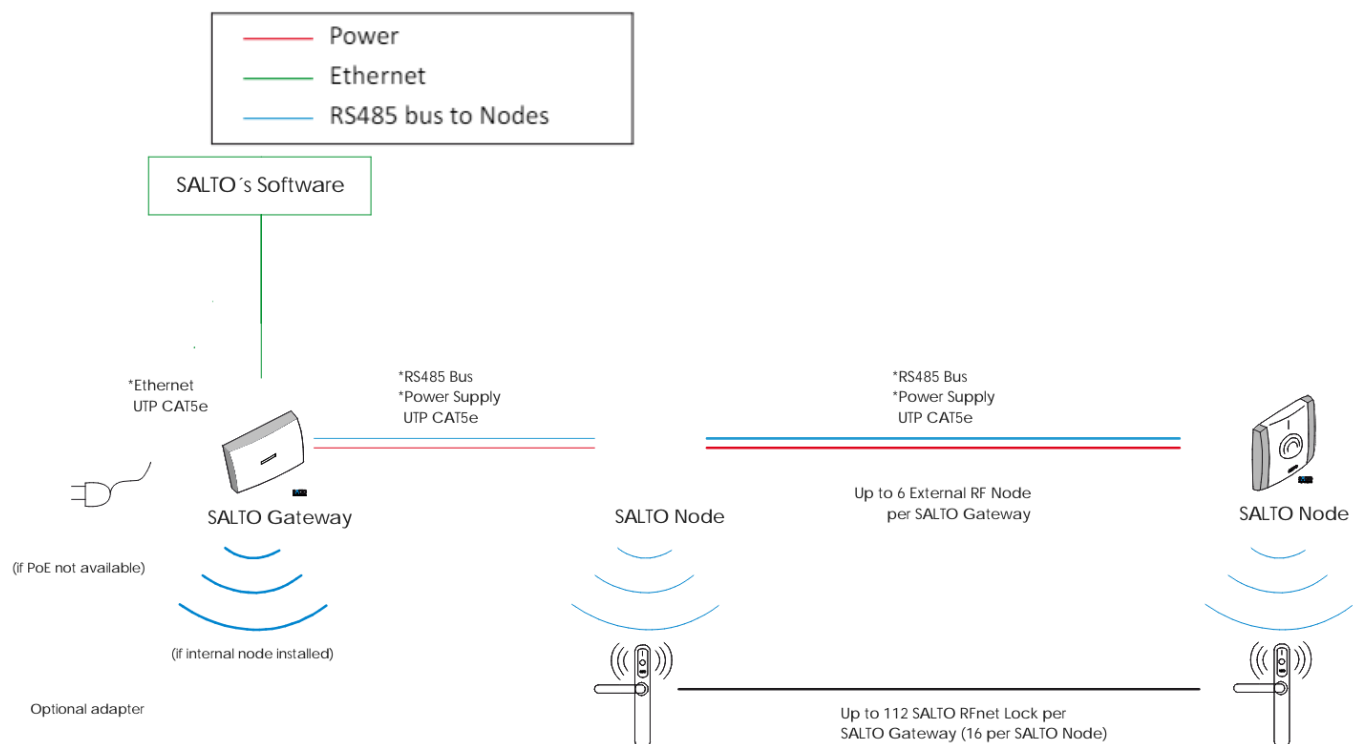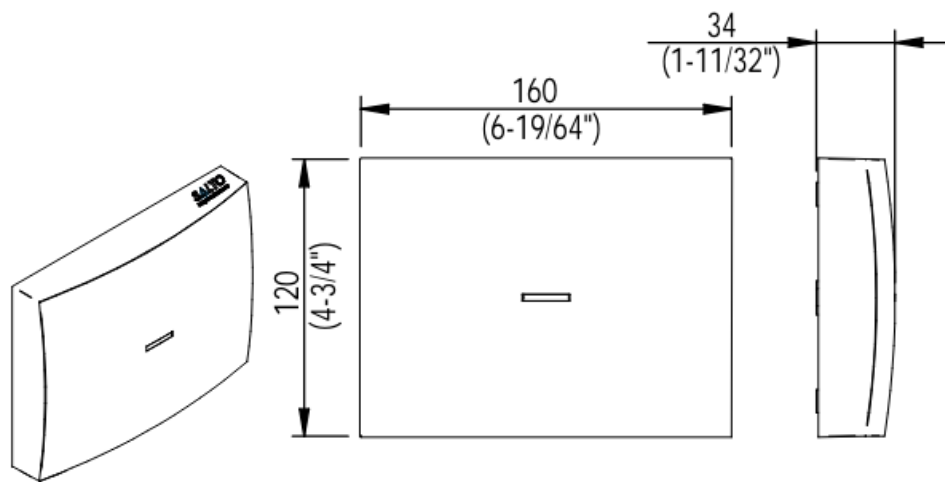
Electrical characteristics

Operation conditions

	Min	Typ	Max	Unit
Temperature	0	25	60	ºC
Humidity	35		85	%

PoE (IEEE 802.3af)

		Unit
Class	2	
MaxPower	5	W
Ethernet Standard	10BASE-T/100BASE- TX	

Cable requirements

Ethernet UTP CAT5e
Complies with IEC 60332, IEC 60695-11-21 or VW-1 (UL 2556)
SALTO BLUEnet Characteristics (if internal node installed)

Frequency Range	2400-2483,5 Mhz
RF Standard	Bluetooth Low Energy
Indoor Radio Range	10m/15m*
Max output power	8dBm

Auxiliary Power Supply

	Min	Typ	Max	Unit
InputVoltage Note 2	10	12	15	V
Currentconsumption 75 Note 3			500 Note 4	mA

SALTO RFnet Characteristics (if internal node installed)

Frequency Range	2400-2483 Mhz
RF Standard	IEEE 802.15.4
Indoor Radio Range	10/15m*
Max output power	5dBm

(*) Depending upon installed environment.

Note 1: 1x2x24AWG or UTP CAT5e recommended
Note 2: Use provided AC-DC power supply
Note 3: No external/internal node connected
Note 4: 6 external node connected

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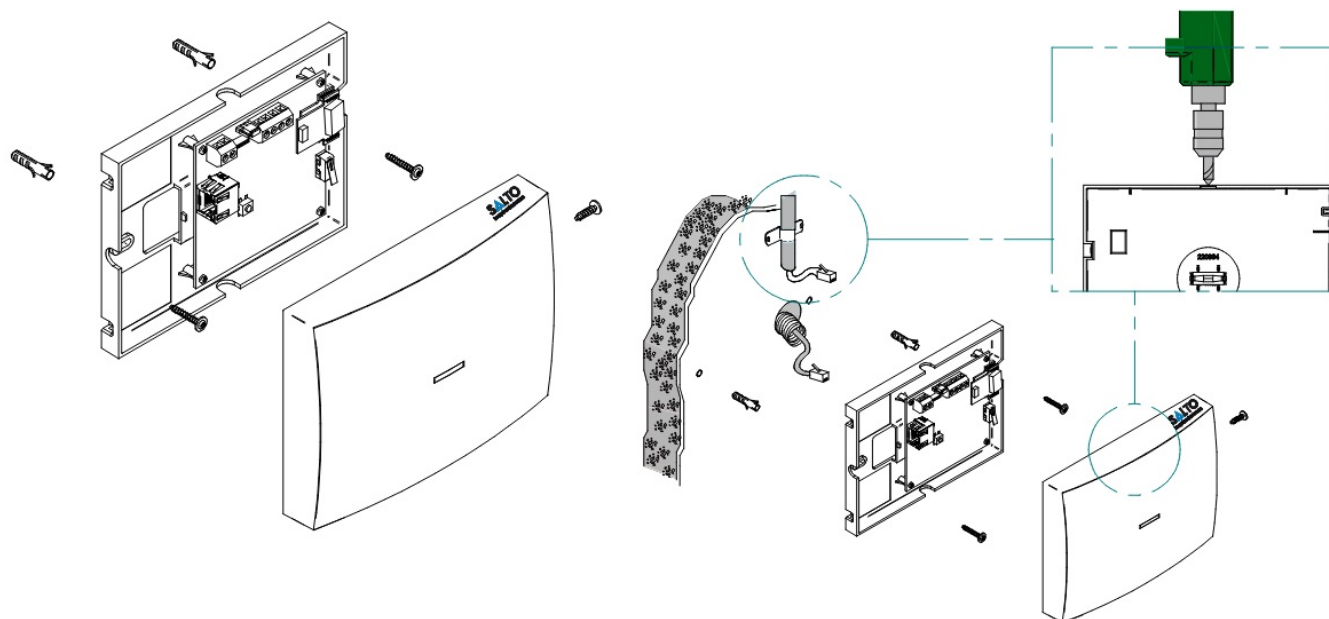The receiver device must be located facing the product antenna. Please check your product's BLUEnet antenna position.
Recommended connectivity distance: 10m – 15m

UL Statement

Comply with UL/CSA 62368-1:
Product could be connected to PoE networks without routing to the outside plant

Mechanical installation

Electrical installation

– When PoE and auxiliary power supplies are connected at the same time, Poe is disconnected.
– Pressing CLR button 5 seconds, Gateway enters in addressing mode.

⚠️ Auxiliary power supply needed when Ethernet infrastructure is not PoE (Power over Ethernet).
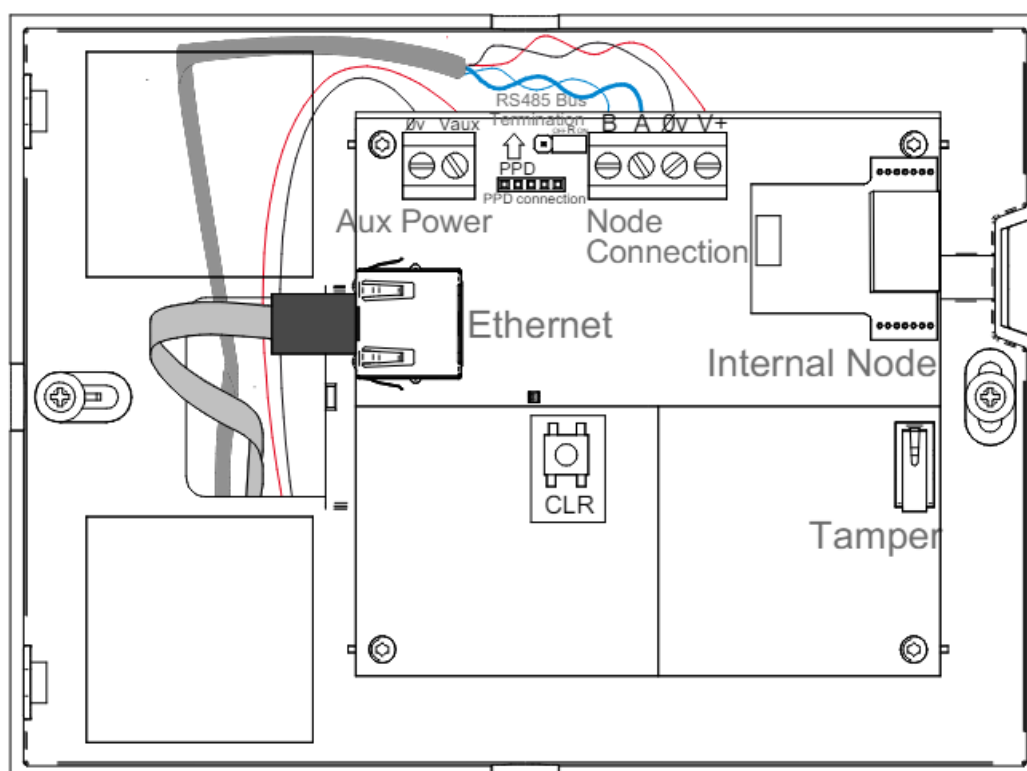
Configuration

Addressing and configuration

Gateway is a DCHP ready device. If there is no DCHP server on the local Ethernet network, user can manually configure a fixed IP address changing different parameter using SALTO Gateway Web Server:

1. Pressing CLR button for 5 seconds, SALTO Gateway enters in addressing mode (green LED turns to orange).

2. Access to 192.168.0.234 IP address with a standard browser and configure network parameters as needed.

3. Pressing again CLR button for 5 seconds or confirming the configuration, the device is going to quit the addressing mode.

When addressing process success, configure the wireless network with SALTO's software (check the help of the application).
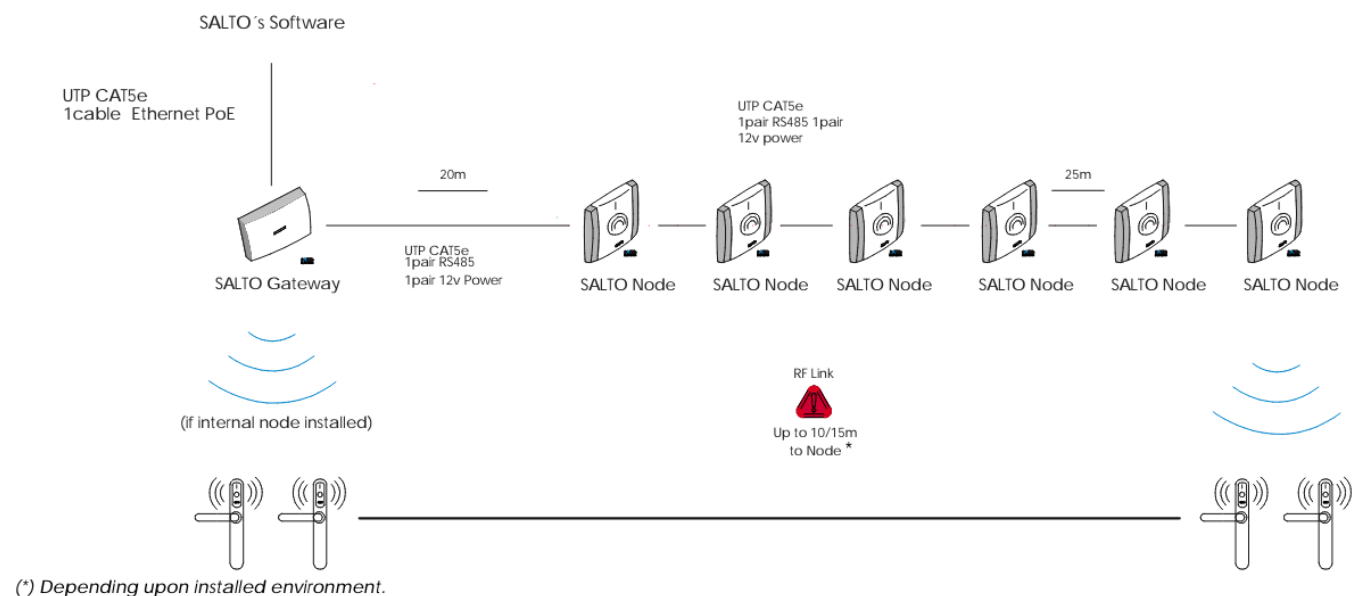

Installation example

(*) Depending upon installed environment.

Signalling

LED COLOR	DESCRIPTION
No light	Lack of power supply
Green	Everything is OK
Orange	Gateway in "Addresing mode"
Red	Gateway in "Bootloader mode" state
Flashing Green	No initialized by SALTO's software

The LEDs on the Ethernet Connector show the state of the Ethernet communication

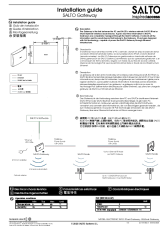| LED COLOR	DESCRIPTION
No light	No Ethernet Connection
Green	Ethernet active
Flashing Orange	Data transfer taking place through Ethernet

Operational test

Once the product is installed, follow these steps to check the correct operation:
– Visually chek that the LED is active after power on.
– When nodes and locks are installed, check that the LED is green.
– Check Ethernet connector LED to know communication state.

This unit should be tested at least once a year as described in "Operational Test".

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European view ◁ ◎
All contents current at time of publication.
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Documents / Resources

[SALTO GATEWAYW3CAUS Bluenet Wireless Gateway](#) [pdf] Installation Guide
GATEWAYW3CAUS Bluenet Wireless Gateway, GATEWAYW3CAUS, Bluenet Wireless Gateway, Wireless Gateway, Gateway

References

- **[User Manual](#)**