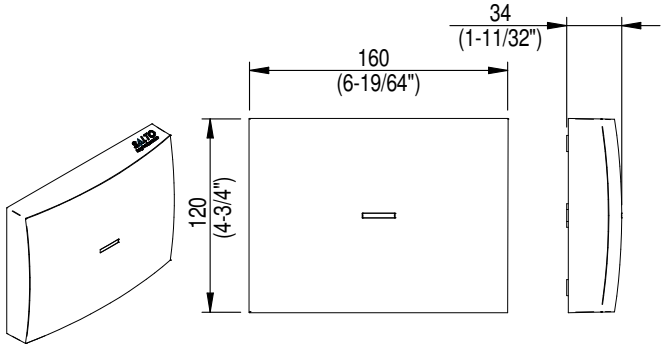
Installation guide
SALTO Gateway

SALTO inspiredaccess

(Eng) Installation guide
(E) Guía de instalación



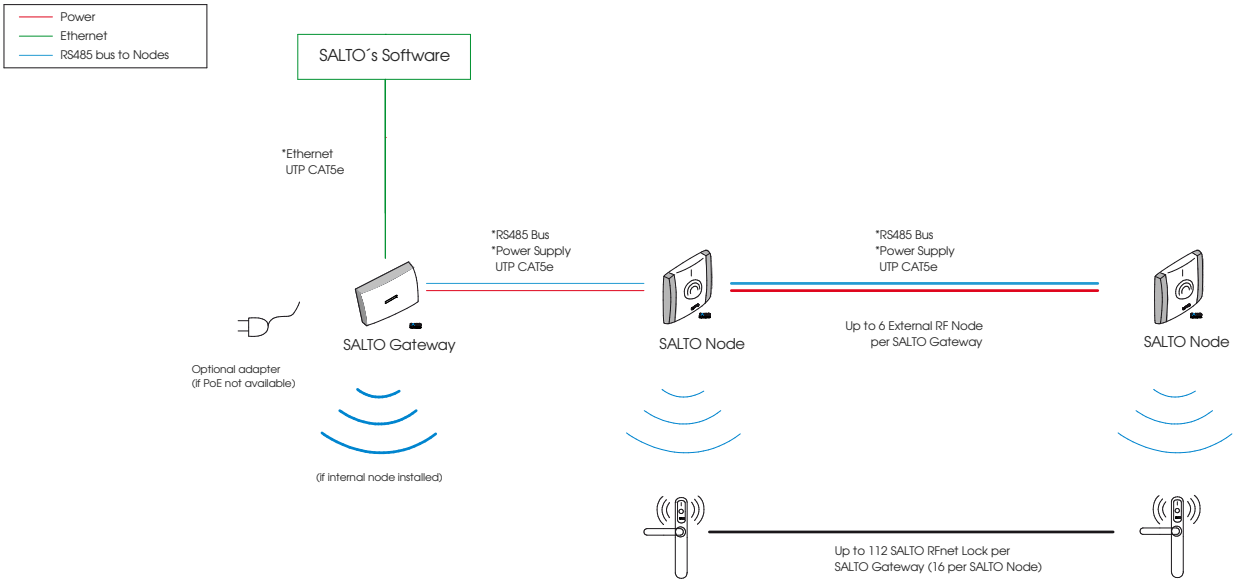
(Eng) Description

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.

(E)

Descripción

El Gateway hace de enlace entre el PC o servidor, donde se aloja la base de datos (conexión Ethernet estándar RJ45) y la red wireless SALTO RFnet o SALTO BLUEnet (escudos wireless). Los SALTO Gateways son gestionados a través del software de última generación de SALTO Systems, permitiendo que los operadores gestionen y se comuniquen de forma sencilla y segura con todos los puntos de acceso wireless. Dispone de tecnología PoE que le permite alimentarse a través de la infraestructura Ethernet.



(Eng) Electrical characteristics (E) *Características eléctricas*

Operation conditions

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

Cable requirements

Ethernet	UTP CAT5e
Node Connection (AB)	Generic twisted pair wire Note1
Node Connection (Vdd)	24 AWG

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

PoE (IEEE 802.3af)

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

Auxiliary Power Supply

	Min	Typ	Max	Unit
Input Voltage Note 2	10	12	15	V
Current consumption	75 Note 3		500 Note 4	mA

SALTO BLUEnet Characteristics (if internal node installed)

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

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

European view

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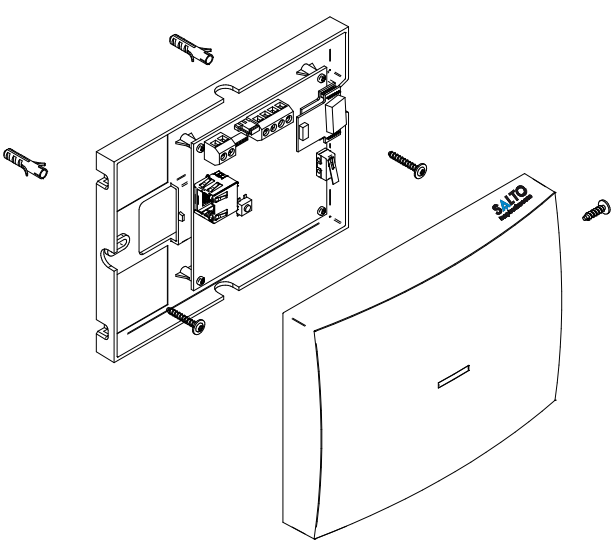
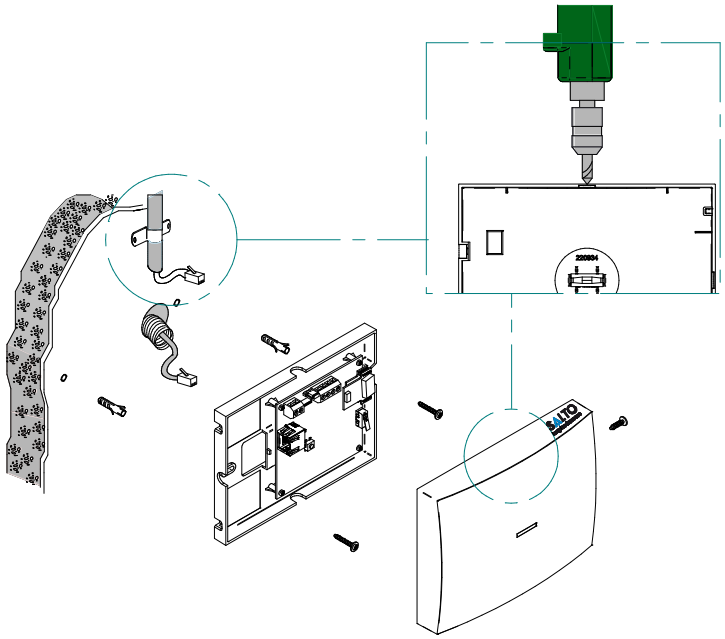
SALTO Gateway

Eng Mechanical installation E *Instalación mecánica*





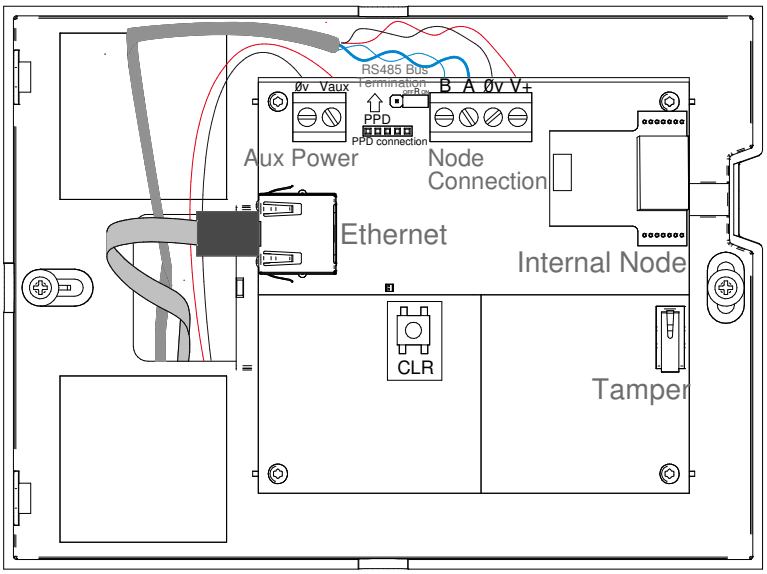
Eng Electrical installation E *Instalación eléctrica*

Eng **- 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.

E *- La alimentación auxiliar prevalece sobre la alimentación PoE en caso de conectar las dos a la vez.*
- Pulsando el botón CLR 5 segundos, el Gateway entra en modo direccionamiento.

Eng **RS485 bus termination resistor is needed (ON position) when the node is located at the end of the bus, or there are not external nodes connected.**

E *La resistencia de terminación del bus RS485 es necesaria (posición ON) cuando el equipo esté situado en uno de los extremos del bus, o no hay nodos externos conectados.*



Eng **Auxiliary power supply needed when Ethernet infrastructure is not Poe (Power over Ethernet).**

E *La alimentación auxiliar solo es necesaria cuando la infraestructura Ethernet no cuente con soporte Poe (Power over Ethernet).*

European view

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(Eng) Configuration (E) *Configuración*

(Eng) **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.**

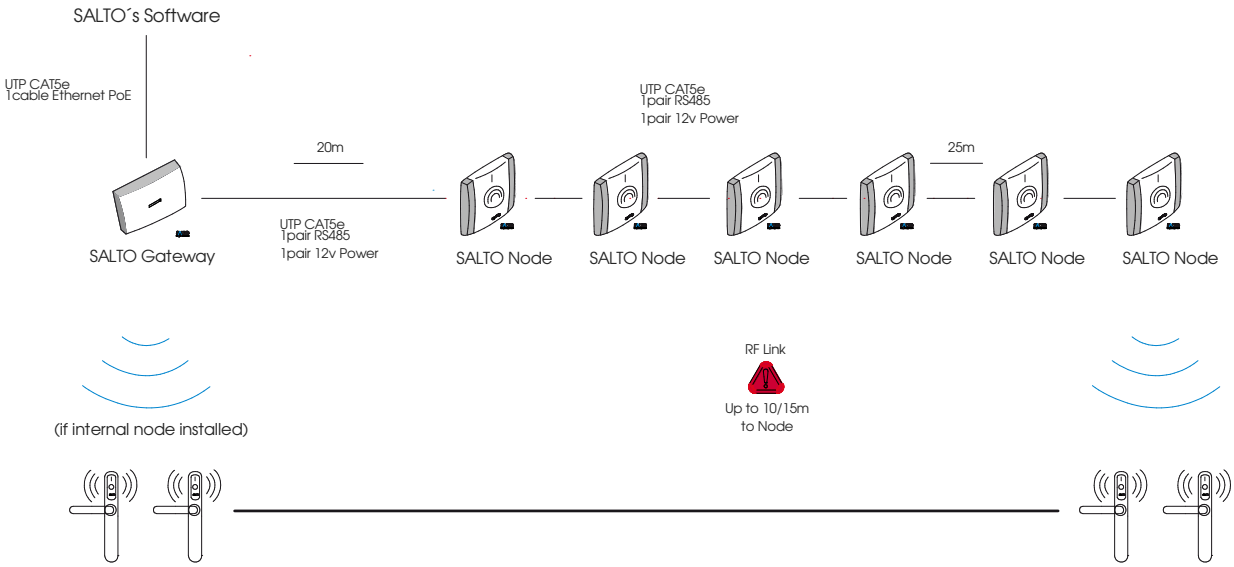
When addressing process success, configure the wireless network with SALTO's software (check the help of the application).

(E) *Direccionamiento y configuración*
El SALTO Gateway es un dispositivo que dispone de DHCP. Si no existe un servidor DHCP en la red local Ethernet, el usuario puede configurar una IP fija cambiando diferentes parámetros utilizando el SALTO Gateway Web Server:

1. *Pulsando el botón CLR 5 segundos el SALTO Gateway entra en modo direccionamiento (pasa del LED verde al naranja).*
2. *Acceder a la dirección IP 192.168.0.234 a través de un navegador web esándar y configurar los parámetros de red.*
3. *Pulsando otra vez el botón de CLR 5 segundos o confirmando la configuración, el dispositivo saldrá del modo direccionamiento.*

Una vez direccionado, configurar la red wireless a través del software de SALTO (consultar la ayuda del programa).

(Eng) Installation example (E) *Ejemplo de instalación*



European view

(Eng) Signalling (E) *Señalización*

(Eng) The LED in the top layer of the Gateway shows the state of the system:

LED colour	Description
No light	Lack of power supply
Green	Everything is ok
Orange	Gateway in 'Addressing Mode' state
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 colour	Description
No light	No Ethernet connection
Green	Ethernet active
Flashing orange	Data transfer taking place through Ethernet.

(E) Los LEDs del Gateway indican en todo momento el estado del sistema:

Color LED	Descripción
No luz	Alimentación no presente
Verde	El sistema funciona correctamente
Naranja	El Gateway está en "Modo Direccionamiento"
Rojo	El Gateway está en "Modo Bootloader"
Parpadeo Verde	No inicializado por el software de SALTO

Los LEDs situados en el conector Ethernet indican el estado de la conexión:

Color LED	Descripción
No luz	Sin conexión Ethernet
Verde	Ethernet activo
Parpadeo Naranja	Transferencia de datos activa

(Eng) Operational test (E) Test operacional

(Eng) **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.**

(E) *Una vez instalada la unidad de control, para comprobar el correcto funcionamiento de la instalación, siga los siguiente pasos:*
- *Comprobar visualmente que al alimentar el equipo el LED está activo.*
- *Comprobar que al instalar los nodos y las cerraduras el LED está en verde-*
- *Para saber el estado de la conexión Ethernet, comprobar el estado de los LEDs.*

(Eng) Operational test (E) Test operacional

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

(E) *Es recomendable realizar un testeo operacional una vez al año siguiendo el "Test Operacional".*

European view

Compliance

PRODUCTS DESCRIPTION

PRODUCT		TECHNOLOGY		SOFTWARE			
COMMERCIAL NAME	MODEL	BLUETOOTH SMART	IEEE802.15.4	CONTROL	RF3 MODULE	RF2 MODULE	BLUETOOTH MODULE
Gateway P0908	BLUEnet Gateway	x		0083	0142		0143
	RFnet Gateway		x	0083		0089	
Node P1114	NRF30	x		0142			0143
	NRF		x	0088			

EU COMPLIANCE STATEMENT

EN Hereby, SALTO Systems S.L. (Arkotz Kalea (Pol. Lanbarren), 9 – 20180 Oiartzun– Spain), declares that this access control equipment is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU (RED) and 2011/65/EU (RoHS). You will be able to find a copy of the original declaration of conformity at the following Internet address: **http://www.saltosystems.com/certificate**

ES Por medio de la presente SALTO Systems S.L. (Arkotz Kalea (Pol. Lanbarren), 9 – 20180 Oiartzun– Spain) declara que este equipo de control de accesos cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 2014/53/UE (RED) y 2011/65/UE (RoHS). Podrá encontrar una copia de la declaración de conformidad original en la siguiente dirección de internet: **http://www.saltosystems.com/certificate**

FR Par la présente SALTO Systems S.L. (Arkotz Kalea (Pol. Lanbarren), 9 – 20180 Oiartzun– Spain) déclare que l'appareil équipement pour le contrôle d'accès est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 2014/53/UE (RED) et 2011/65/UE (RoHS). Vous pouvez télécharger une copie de la déclaration de conformité originale à travers l'adresse suivante: **http://www.saltosystems.com/certificate**

DE Hiermit erklärt SALTO Systems S.L. (Arkotz Kalea (Pol. Lanbarren), 9-20180 Oiartzun-Spain) dass sich das Gerät Zutrittskontrollgeräte im Übereinstimmung mit den grundlegendenAnforderungen und den übrigen einschlägigen Bestimmungen derRichtlinie 2014/53/EU (RED) befindet und 2011/65/EU (RoHS). Eine Kopie der originalen Konformitätserklärung finden Sie auf der folgenden Internetseite: **http://www.saltosystems.com/certificate**

NL Hierbij verklaart SALTO Systems S.L. (Arkotz Kalea (Pol. Lanbarren), 9 – 20180 Oiartzun– Spain) dat het toestel toegangscontroleapparatuur in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 2014/53/EU (RED) en 2011/65/EU (RoHS). U kunt een kopie van de originele verklaring van overeenstemming vinden op het volgende internetadres: **http://www.saltosystems.com/certificate**

PT A SALTO Systems S.L. declara que este equipamento de controlo de acessos está conforme os requisitos essenciais e outras disposições da Diretiva 2014/53/UE (RED) e 2011/65/EU (RoHS). Poderá encontrar uma cópia da declaração de conformidade original na seguinte direção de internet: **http://www.saltosystems.com/certificate**

ELECTRICAL WARNINGS

This device must be powered by an external Limited Power Source, in compliance with the clause 2.5 of the standard IEC 60950-1.

FRECUENCY / OUTPUT MAXIMUM POWER

TECHNOLOGY	OPERATING FRECUENCY	OUTPUT MAX. POWER
Bluetooth Smart	2400 – 2483.5 MHz	+8 dBm / + 2.8 dBm
IEEE802.15.4	2400 – 2483.5 MHz	+5 dBm

MECHANICAL WARNINGS

In order to confirm the correct operation of this electronic device, SALTO recommends using it in combination with a lock destined for that use (door mass, frequency of use, fire door, etc) and that is in good operational conditions. The SALTO product should be treated with care during the installation process to avoid any aggressive contact that may damage the unit. It may be necessary to loosen the trims mounting during installation. Do not bring the device into contact with oil, paints or acids. Do not paint the door with the mortise lock or electronic device already mounted on the door. CLEANING THE ELECTRONIC DEVICE: a damp cloth with mild soapy water can be used. Never use abrasive soaps or sprays. For best performance, stainless steel should be cleaned regularly. Note that when the door is closed without the lock having been already programmed, the lock will automatically lock and can only be opened with a Portable Programing Device (PPD). If you have questions or doubts on this, please contact your authorized SALTO supplier.

LEGAL WARNINGS

The user shall be responsible for the correct use and maintenance of the access control equipment according to the instructions herein. SALTO shall not be responsible for any defect, malfunction, loss or damage, whether direct or indirect, caused by or arisen from any improper installation or utilization of the equipment or which contravenes, transgresses or infringes in any manner the abovementioned instructions.

SALTO's liability concerning the equipment is limited to the warranty provided. The warranty does not cover product failures due to repairs, modifications or product manipulations performed in the access control equipment or in the inner electromechanical structure by anyone other than authorized SALTO dealers or personnel.

FCC COMPLIANCE STATEMENT

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This product does not to exceed the emission limits for RF exposure set by the FCC. The antenna must be installed and operated with minimum distance of 20 cm.

CANADIAN COMPLIANCE STATEMENT

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This device has been tested and found to comply with the limits for a Class B digital device, pursuant to ICES-003.

This product does not to exceed the emission limits for RF exposure set by the ISED. The antenna must be installed and operated with minimum distance of 20 cm.

Ce produit ne doit pas dépasser les limites d'émission pour l'exposition RF fixées par l'ISED. L'antenne doit être installée et utilisée à une distance minimale de 20 cm.