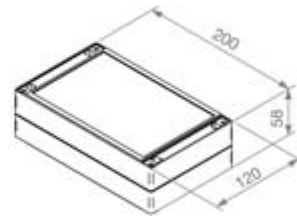
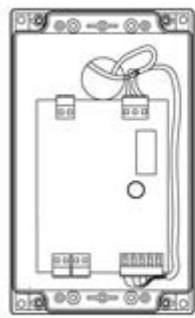


## System Components Control Units

### **CU2010**

Designed for use with the SALTO WRM1000 wall reader, the Off Line CU2010 is a relay output control unit that can be connected to the WRM1000 wall reader. It offers single wall reader connection and a single output control relay.



### **Main features and benefits:**

- To be used only with WRM1000 wall reader.
- Off line Unit.
- User on card audit trail capability for audit via the SALTO Virtual Network (SVN).
- Allows for control of relay switched locking devices, such as electronic locks, electric strikes, magnets, barriers, lifts, shutters, automatic door openers, bollards and more.
- Request to Exit (RTE) switch input.
- Door state input.
- Managed by software.
- Set up made with Portable Programming Device (PPD).
- Update made with Portable Programming Device (PPD).
- User ID carrier deletion through SVN technology if the carrier has been updated.
- Maximum number of users: 64.000
- Maximum number of doors in system: 64.000
- Maximum events on audit: 1.000 events
- Time zones: 256
- Time periods: 30
- Calendars in system: 256
- Zones in system: 1024
- User groups: unlimited

### **Opening modes:**

- Standard (locked at all times)
- Office (free passage)
- Timed Office (automatic locking at end time)
- Automatic opening (8 pairs of “hands free” timed lock and unlocks per day with holidays)
- Automatic Opening + Office
- Toggle (present card to lock, present card to unlock)
- Timed toggle (automatic locking at end time)

### **Technical data:**

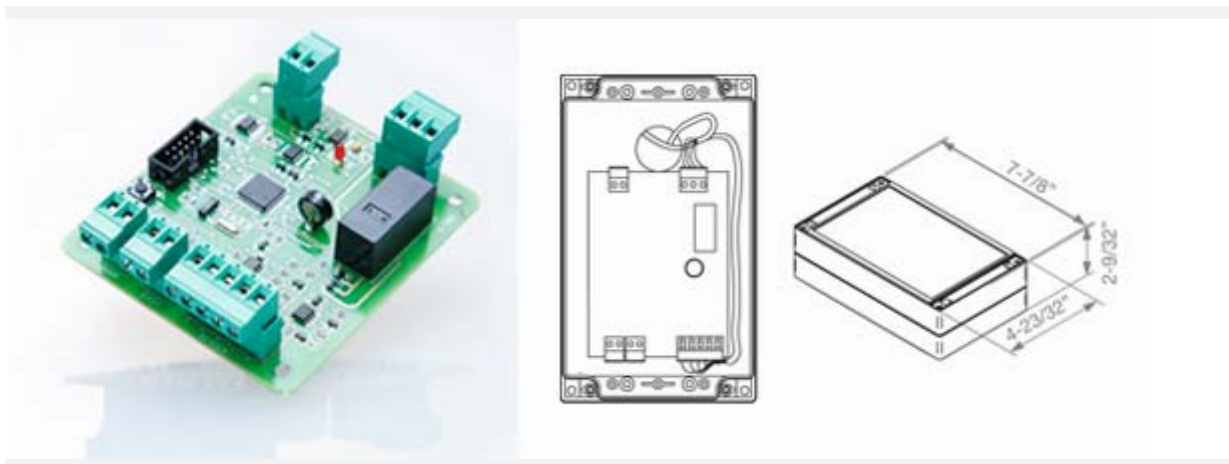
- Current required: 12Vdc / 500mA 6VA adaptor included
- Number of wall reader connections: 1
- Connection to the wall reader: UTP CAT 5 standard cable
- Maximum distance to the reader: 55 yds
- Number of relays: 1
- Relay output: Maximum current of the contact to relay 16 A at 250 VAC with resistive loads and 8 A at 250 VAC with inductive
- Loads and 16A at 24VDC
- Cabling to the relay: Determined by load
- Operating Temperature: -4° to 176° F

### **Certificates:**

- CE: 89/336/EEC (Electromagnetic Compatibility).
- EN 55022 (1994), Class B
- EN 50082 (1997)

## CU5010

Designed for use with the SALTO WRM6000 and WRM8001 wall readers, the Off Line CU5010 is a relay output control unit that can be connected to the WRM6000 and WRM8001 wall readers (single wall reader connection and single output control relay).



### Main features and benefits:

- Off line Unit.
- User on card audit trailing capability for audit trailing via the SALTO Virtual Network (SVN).
- Request to Exit (RTE) switch input.
- Door state input.
- Managed by software.
- Deleted user or cancelled cards removed through SVN technology if the control unit has been updated via an updated user card.
- Set up made with Portable Programming Device (PPD).
- Update made with Portable Programming Device (PPD) and/or SVN.
- Anti pass back mode.
- Maximum user number: 64.000
- Maximum door number: 64.000
- Maximum events on audit: 1.000 events
- Time zones: 256
- Time periods: 30
- Calendars in system: 256
- Zones in system: 1024
- User groups: unlimited

### Opening modes:

- Standard (locked at all times)
- Office (free passage)
- Timed Office (automatic locking at end time)
- Automatic opening (8 pairs of "hands free" timed lock and unlocks per day with holidays)
- Automatic Opening + Office.
- Toggle (present card to lock, present card to unlock)
- Timed toggle (automatic locking at end time)

**Technical data:**

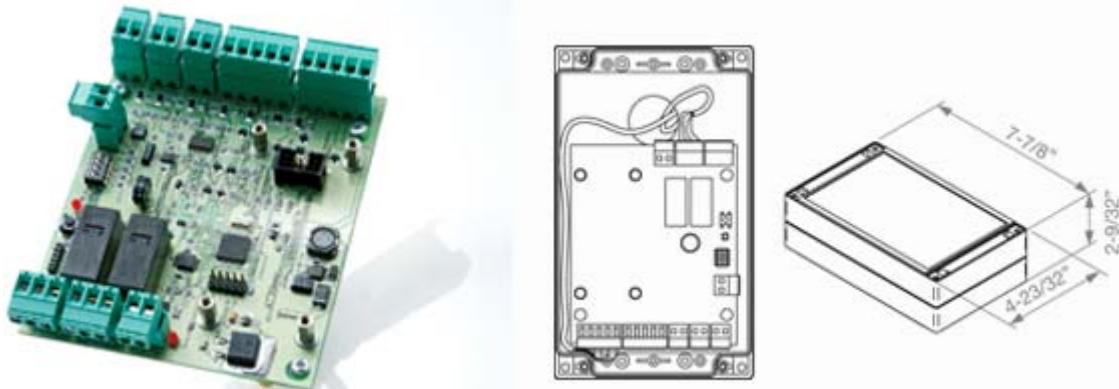
- Current required: 12 v / 500mA 6VA adaptor included
- Number of wall readers: 1
- Connection to the wall reader: UTP CAT 5 standard cable
- Maximum distance to the reader: 55 yds
- Number of relays: 1
- Relay output: Maximum current of the contact to relay 16 A at 250 VAC with resistive loads and 8 A at 250 VAC with inductive Loads and 16A at 24VDCCabling to the relay:
- Determined by load
- Temperature: -4° to 176° F

**Certificates:**

- CE: 89/336/EEC (Electromagnetic Compatibility)
- EN 55022 (1994), Class B
- EN 50082 (1997)

## CU5000

The SALTO CU5000 is a single door Off Line Control Unit that can have 1 or 2 wall readers connected and has 2 control relay outputs.



### Main features:

- Read in – Read out locking, with 2 wall readers used back to back.
- Relay output 2 has the ability to work in several different modes.
- Anti pass back mode available by connecting 2 wall readers, ideal for controlling use of main entrances, parking barriers (IN&OUT), elevators (with EB5008) etc.
- It can also be used with the SALTO WRMPK key pad for user verification and PIN code only mode access.
- Request to Exit (REX) switch input.
- Door monitoring and tamper monitoring via contacts input.
- User on card audit trailing capability for audit trailing via the SALTO Virtual Network (SVN).
- Managed by software.
- Deleted user or cancelled cards removed through SVN technology if the control unit has been updated via an updated user card.
- Set up made with Portable Programming Device (PPD)
- Update made with Portable Programming Device (PPD) and/or SVN.
- Upgradeable to on line unit type CU50EN or CU50ENSVN.
- Firmware upgradeable by means of PPD Firmware Updater.
- Capability to control temporary 4 external relay outputs (with EB5008).
- Maximum user number: 64.000
- Maximum door number: 64.000
- Maximum events on audit: 3.000 events
- Time zones: 256
- Time periods: 30
- Calendars in system: 256
- Zones in system: 1024
- User groups: unlimited

## Opening modes:

- Standard (locked at all times)
- Office (free passage)
- Timed Office (automatic locking at end time)
- Automatic opening (8 pairs of "hands free" timed lock and unlocks per day with holidays)
- Automatic Opening + Office
- Toggle (present card to lock, present card to unlock)
- Timed toggle (automatic locking at end time)
- Toggle + Automatic Opening
- Keypad Only
- Timed Key pad
- Key + PIN
- Timed key + PIN
- Automatic changes

## Technical data:

- Current required: 12 v DC / 500mA 6VA adaptor included
- Number of wall readers: 2
- Connection to the wall reader: UTP CAT 5 standard cable
- Maximum distance to the reader: 110 yds
- Number of relays: 2 (Optionally extended to 128, see relay extension board)
- Relay output: Maximum current of the contact to relay 16 A at 250 VAC with resistive loads and 8 A at 250 VAC with inductive Loads and 16A at 24VDC
- Cabling to the relay: Determined by load
- Temperature: -4° to 176°F

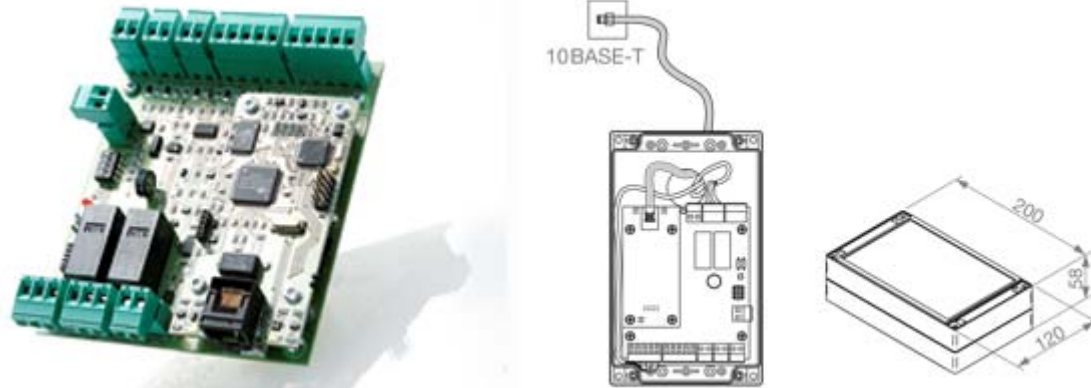
## Certificates:

- CE EN 55022 (1994), Class B
- EN 61000-6-1 (2001)
- EN 61000-6-2 (2001)
- EN 61000-4-2 (1995)
- EN 61000-4-3 (1995)
- EN 55024 (1998)

## CU50EN

The SALTO CU50EN is an On Line Control Unit that can have 1 or 2 wall readers connected and has 2 control relay outputs.

Access control changes can be carried out on the Salto software and are then actioned at these control units in real time. It provides full on line features via the networked Ethernet/WIFI link such as door monitoring status, remotely controlling door opening and Roll Call.



### Main features:

- Real time Access Control changes:
- Live monitoring of user entry and exit through the control unit.
- Live audit trail build up on the software.
- Door monitoring status for forced door and door left open scenarios.
- Remote door opening from software.
- Door lock out, or lock open emergency setting from software.
- The control unit can be included in a roll call set up used, for example, for user location monitoring, parking control etc.
- Read in – Read out locking, with 2 wall readers used back to back.
- Relay output 2 has the ability to work in several different modes.
- Anti pass back mode available by connecting 2 wall readers, ideal for controlling use of main entrances, parking barriers (IN&OUT), elevators (with relay extension board) etc.
- It can also be used with the SALTO WRMPK keypad for user verification, and PIN code only mode access.
- Firmware upgradeable by means of PPD Firmware Updater.
- Capability to control temporary 4 external relay outputs (with EB5008).
- Works as online Hub up to 40 On Line Energy Saving Devices.
- Request to Exit (REX) switch input.
- Door and tamper monitoring via contacts input.
- Connected to standard Ethernet/WIFI network.
- Managed by software.
- Works off line if network connection is lost.
- Compatible with all of the Salto WRM (except WRM100)
- Deleted user or cancelled cards removed live through the network link.
- Set up made through online connection directly from the PC.
- Update made through online connection directly from the PC.
- Data transfer security: All communications between the CU and the PC are encrypted by a proprietary algorithm. In addition the CU is protected by a 3DES encrypted challenge / response.
- Upgradeable to: CU50ENSVN.
- Maximum user number: 64.000
- Maximum door number: 64.000

- Maximum events on audit: Unlimited in on line mode. In off line mode 3.000 audits.
- Time zones: 256
- Time periods: 30
- Calendars in system: 256
- Zones in system: 1.024
- User groups: unlimited

### **Opening modes:**

- Standard (locked at all times)
- Office (free passage)
- Timed Office (automatic locking at end time)
- Automatic opening (8 pairs of "hands free" timed lock and unlocks per day with holidays)
- Automatic Opening + Office
- Toggle (present card to lock, present card to unlock)
- Timed toggle (automatic locking at end time)
- Toggle + Automatic Opening
- Keypad Only
- Timed Key pad
- Key + PIN
- Timed key + PIN
- Automatic changes

### **Technical data:**

- Current required: 12v/ 500mA 6VA adaptor included
- Number of wall readers: 2
- Connection to the wall reader: UTP CAT 5 standard cable
- Maximum distance to the reader: 100m.
- Number of relays: 2 (Optionally extended to 128, see relay extension board)
- Relay output: Maximum current of the contact to relay 16 A at 250 VAC with resistive loads and 8 A at 250 VAC with inductive Loads and 16A at 24VDC.
- Cabling to the relay: Any kind of cable that can support the load.
- Temperature: -4° to 176° F

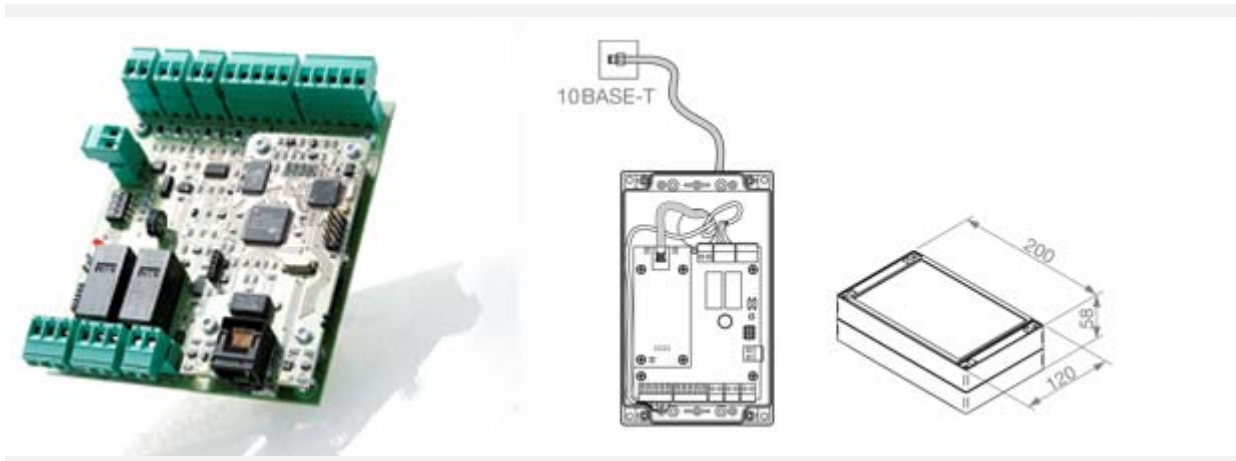
### **Certificates:**

- CE: EN 55022 (1994),
- Class B EN 61000-6-1 (2001)
- EN 61000-6-2 (2001)
- EN 61000-4-2 (1995)
- EN 61000-4-3 (1995)
- EN 55024 (1998)

## CU50EN

The SALTO CU50ENSVN is an On Line Control Unit that can have 1 or 2 wall readers connected and has 2 control relay outputs and has SALTO Virtual Net (SVN) capabilities. Cards are automatically updated with the latest changes in the access plan, it records the user audit into the PC, provides advanced information on battery status and continually updates the cancelled ID carrier black list.

Access control changes can be carried out on the Salto software and are then actioned at these control units in real time. It provides full on line features via the networked live link such as door monitoring status, remotely controlling door opening and Roll Call.



### Main features:

- Real time Access Control changes:
- SVN capabilities in order to manage the XS4 stand alone electronic handle sets, Electronic cylinder and off line control units:
- The ability to add or delete access privileges at will to the ID carriers.
- The ability to program in 256 different time zones.
- Carry out updating tasks changing access times/days using up to 50 different calendars.
- The ability to validate the expiry date of key cards on any SVN on-line wall reader.
- The ability to add security through additional authenticated validation procedures including pin codes as well the ability to blacklist cards from the system.
- On card audit trailing to track staff or visitor movement.
- Lock specific battery power data is registered on any card using the lock – staff or visitor – and transferred back to the PC control software via any update reader just by using the system.
- Real time Access Control changes.
- Live monitoring of user entry and exit through the control unit.
- Live audit trail build up on the software.
- Door monitoring status for forced door and door left open scenarios.
- Remote door opening from software.
- Door lock out, or lock open emergency setting from software.
- The control unit can be included in a roll call set up used, for example, for user location monitoring etc.
- Read in – Read out locking, with 2 wall readers used back to back.
- Relay output 2 has the ability to work in several different modes.
- Anti pass back mode available by connecting 2 wall readers, ideal for controlling use of main entrances, parking barriers (IN&OUT), elevators (with relay extension board) etc.
- It can also be used with the SALTO WRMPK keypad for user verification and PIN code only mode access.
- Firmware upgradeable by means of PPD Firmware Updater.
- Capability to control temporary 4 external relay outputs (with EB5008).

- Works as online Hub up to 40 On Line Energy Saving Devices.
- Request to Exit (RTE) switch input.
- Door and tamper monitoring via contacts input.
- Connected to standard Ethernet/WIFI network.
- Managed by software.
- Works off line if network connection is lost (except for updates).
- Compatible with all the Salto WRM (except WRM1000).
- Deleted user or cancelled cards removed live through the network link.
- Set up made through online connection directly from the PC.
- Update made through online connection directly from the PC.
- Data transfer security: All communications between the CU and the PC are encrypted by a proprietary algorithm. In addition the CU is protected by a 3DES encrypted challenge / response.
- Maximum user number: 64.000
- Maximum door number: 64.000
- Maximum events on audit: Unlimited in on line mode. In off line mode 3000 audits.
- Time zones: 256
- Time periods: 30
- Calendars in system: 256
- Zones in system: 1.024
- User groups: unlimited

### **Opening modes:**

- Standard (locked at all times)
- Office (free passage)
- Timed Office (automatic locking at end time)
- Automatic opening (8 pairs of "hands free" timed lock and unlocks per day with holidays)
- Automatic Opening + Office
- Toggle (present card to lock, present card to unlock)
- Timed toggle (automatic locking at end time)
- Toggle + Automatic Opening
- Keypad Only
- Timed Key pad
- Key + PIN
- Timed key + PIN
- Automatic changes

### **Technical data:**

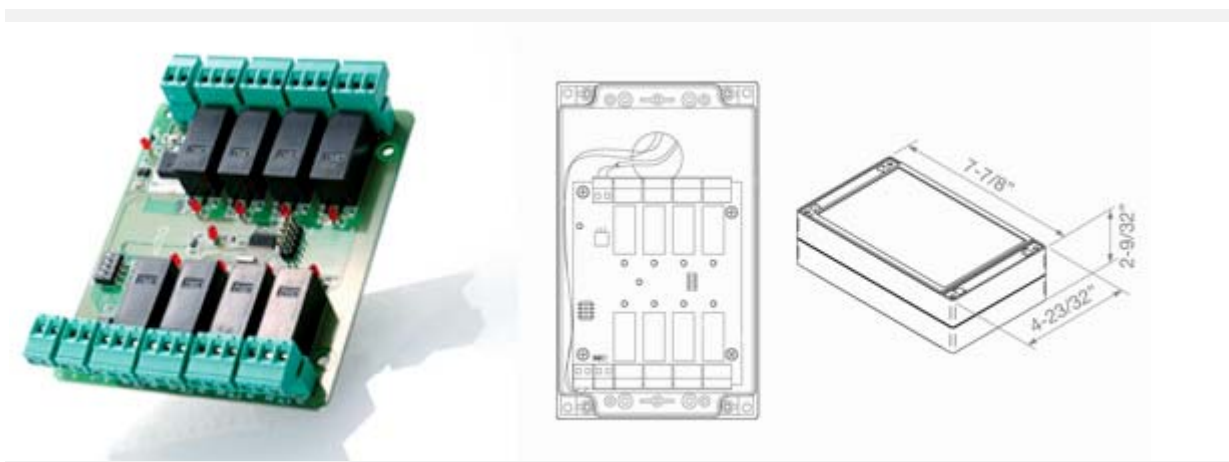
- Current required: 12v DC/ 500mA 6VA adaptor included
- Number of wall readers: 2
- Connection to the wall reader: UTP CAT 5 standard cable
- Maximum distance to the reader: 110yds
- Number of relays: 2 (Optionally extended to 128, see relay extension board)
- Relay output: Maximum current of the contact to relay 16 A at 250 VAC with resistive loads and 8 A at 250 VAC with inductive Loads and 16A at 24VDC
- Cabling to the relay: Determined by load
- Temperature: -4° to 176°F

## **Certificates:**

- CE: CE EN 55022 (1994), Class B
- EN 61000-6-1 (2001)
- EN 61000-6-2 (2001)
- EN 61000-4-2 (1995)
- EN 61000-4-3 (1995)
- EN 55024 (1998)

## EB5008 Salto Relay Extension Board: (multi relay output control board)

The EB5008 is a device which when connected to the CU5000, CU50EN or CU50ENSVN control units offers the possibility of managing multi relay switch able output systems such as elevator floor level access, multi shutter and barrier systems, machine switching etc.



### Main features:

- Up to 16 EB5008's can be connected in series to 1 control Unit that allows you to manage up to 128 outputs.
- Each output has user access (triggering) rights controlled from the software.
- Compatible with all the Salto WRM and CU5000, CU50EN or CU50ENSVN control units.

### Technical data:

- Current required: 12v DC/500mA 6VA adaptor included
- Number of relays each board: 8 (Max. of 16 EB5008 board in series, totalling 128 relays)
- Relay output: Maximum current of the contact to relay 16 A at 250 VAC with resistive loads and 8 A at 250 VAC with inductive Loads and 16A at 24VDC
- Cabling to the relay: Determined by load
- Temperature: -4° to 176°F

### Certificates:

- CE: 89/336/EEC (Electromagnetic Compatibility)
- EN 55022 (1994), Class B
- EN 50082 (1997)

## WR ADAPT

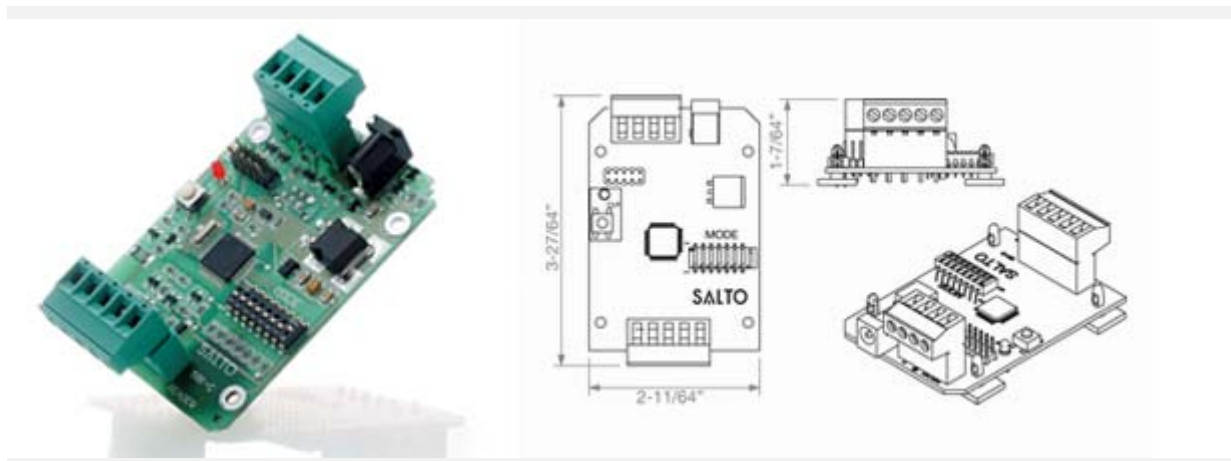
### Wall Reader Adaptor

With the SALTO Wall Reader Adaptor the integration is possible between Salto and third part devices, as time and attendance, POS, etc.

The Wall Reader Adaptor is designed to read data from the RW carriers and send this data to an external device.

The Wall Reader Adaptor is connected by one side to any SALTO Wall Reader, and by the other side to the external device.

The interface with the external device can be RS232, or OMRON or WIEGAND.



### Main features:

Configuration by dip switches to control the data to be read and the type of interfaces with external device.

### Technical data:

Power supply: from 7 and 15v DC from external device. Optionally can be powered through the jack connector.

Connection to the reader: UTP CAT5 Cable.

Connection to the external device: 4 pin terminal block

Current consumption: 15-80mA depending on the reader technology.

Data read by the WRADAPT: ROM CODE, TRACKS ON KEY, and WIEGAND CODE.

## CU ADAPT

Control Unit Adaptor. With the SALTO Control Unit Adaptor the integration is possible between SALTO and third part devices, as time and attendance.

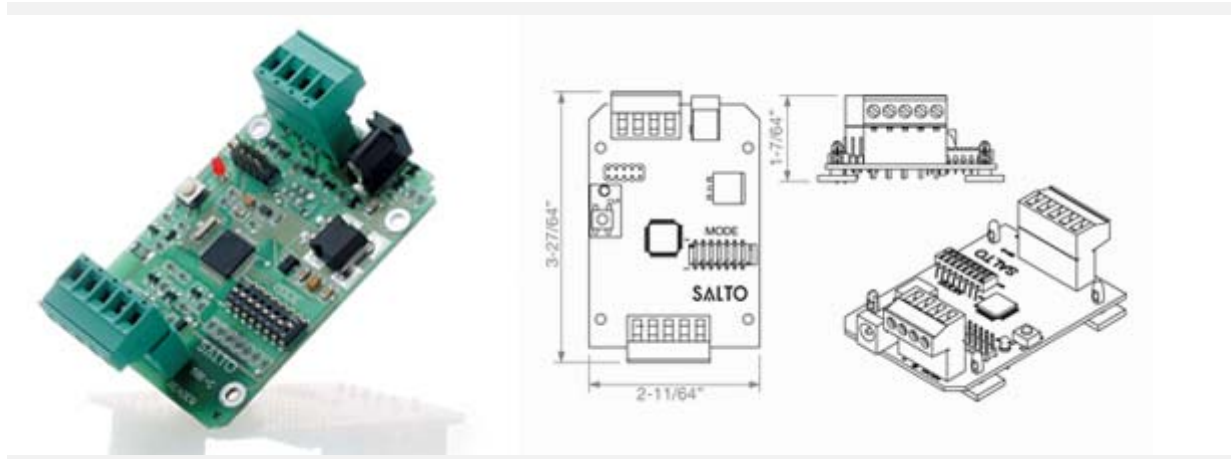
The Control Unit Adaptor is designed to allow users to update their cards at the reading point, which they use on a daily basis, like for instance a Time and Attendance terminal.

The Salto wall reader and Control unit will update and revalidate the card (see CU50ENSVN for all features). Then send the relevant ID data to the 3rd party device like a T&A controller.

Now you can access a door with all the convenience of SALTO access control and control the attendance of your staff at the same time in the same process.

The CU Adaptor is connected by one side to any SALTO Control Unit, and by the other side to the external device.

The interface with the external device can be RS232, OMRON or WIEGAND.



### Main features:

- Configuration by dip switches to control the data to be read and the type of interfaces with external device.

### Technical data:

- Power supply: 12 volts from the Control Unit
- Connection to the CU: UTP CAT5 Cable
- Connection to the external device: 4 pin terminal block. Current consumption: 15-80mA depending on the reader technology
- Data read by the WRADAPT: ROM CODE, TRACKS ON KEY, and WIEGAND CODE