

Big Change v.2

User manual

Rev. 1.1

Token distributor / Money changer



User Manual



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NOTICE

This manual has been prepared with the utmost care. Nevertheless, it is not possible to assure at any time the exact correspondence of the description to the product features. Alberici SpA shall not be held liable by the User for any damage, losses, or third party claims arising from any uses of the manual or of the product. Alberici reserves the right to change at any time in any part in the present manual, as well as in the product and the functions described, without previous notice, to the aim of constantly improve the quality of the products.

CONTENTS

1. Package content	5
2. Product description.....	5
3. Reception and Handling	7
4. Parts Denomination.....	7
5. Dimensions	8
6. Installation.....	8
7. Switch-on	11
8. Operation	12
9. Set up.....	18
10. Messages.....	29
11. Maintenance	31
12. Disposal of the product	32
13. Terms of Guarantee	33
14. Customer Service.....	33

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Dear Customer,

we would like to thank you and congratulate for your choice. We trust that you will appreciate the quality and performance of our BIG CHANGE control station.

This machine operates by cctalk protocol, the well-established serial communication mode that provides security and precision.

Please pay careful attention to the information highlighted by the following signs:



IMPORTANT NOTICE REGARDING THE OPERATOR'S SAFETY AND THE PROPER FUNCTIONING OF THE EQUIPMENT.



IMPORTANT NOTICE REGARDING DANGERS AND RISKS DUE TO ELECTRICITY.



IMPORTANT NOTICE REGARDING DANGERS AND RISKS DUE TO HIGH TEMPERATURES.



GENERAL INFORMATION.

Please read carefully this handbook, to obtain the most from your BIG CHANGE Unit

1. Package content

The package contains:

1. The Alberici BIG CHANGE unit
2. One pair of keys for opening the rear door
3. Master, Service and Operator RFID keys for ACS reader
4. Remote programmer keypad
5. User manual (this manual)
6. Options if requested, packed separately (i.e. download interface for key-stored audits, floorstand, and the like: see page 7)

This product has been packed with the utmost care. If you receive it damaged or incomplete, please notify immediately your findings to the Carrier, and collect it only under conditional signature.

The packing material, wooden pallets included, must be disposed off according to your Country laws and regulations. The product itself, once dismissed, must be disposed off according to the same laws and regulations.

2. Product description

2.1 Intended use

The BIG CHANGE equipment provides change of notes and coins to tokens (one programmable value), and returns change in coins when necessary. It is designed for outdoor installation and functioning. It is recommended that it is sheltered from both rain/hail and from sun rays. It is available with floor-stand, or for being recessed through the wall. Access inside from the machine back.

This equipment is IP54 proof. However, it is always advisable to install it in a position conveniently protected against bad weather and strong light.

2.2 Available functions

- Change of notes and coins to coins or tokens (with return change)
- Purchase of RFID Keys or Cards (only in Manual 2P mode)
- Recharge of credits in RFID Key or Card (with or without bonus)
- Token value programming
- Accounts control on display (only through buttons on the board, or by remote keypad, or by ACS Master Key)
- Free custom-configuration (only through buttons on the board, or by remote keypad)
- Interactive User Menu; Courtesy User language can be switched through 5 available languages

2.3 General Data

Classification:	Class I equipment (CEI EN 60335-1), Category IV (CEI EN 55014-2)
Protection degree:	IP 54 min. (EN 60529)
In-wall dimensions:	400 mm (l) x 690 mm x 498 mm (p) (floor-standing: 700mm x 750mm x 1810)
Weight (options not considered):	53,85 Kg (wall-mount) - 95,50 Kg (with floor-stand)
Power supply:	24 Vac - 50 Hz
Nominal power:	340 W (0,90 A)
Operating temperature / humidity:	-10°C ÷ +50°C / 10 % ÷ 90% non-condensate
Installation:	Recessed through wall (rear access), or on floor-stand.
System components:	
Power supply box	Power switching 340 W con filtro antidisturbi, e ventilato
Control board	Alberici BIG CHANGE CCG ccTalk
Display	Graphic 5" LCD blue
Banknote reader	VEGA ccTalk with stacker (capacity: 300 notes)
Banknote recycler (option)	Vega-RC2
Hoppers	2x HopperOne S11 ccTalk (capacity: each 1200 coins/tokens diam. 24mm), or 1 x HopperOne S11 + Hopper AH4 Discriminator (capacity: 2000 mixed coins 0,50-1-2€) (*)
Coin acceptor	Alberici AL66SP wet-proof
RFID keys cashless reader	Alberici ACS Mifare®
Credit/debit card reader (option)	POS Ingenico ® or Payter ®
Thermal Printer	Custom TG02H
RFID Keys dispenser	Alberici cctalk EMV box
Card dispenser	dispenser Asahi-Seiko CD-200

 Default currency is the Euro. Please ask in advance for different needs.

(*) The AH4 Discriminator Hopper can handle only 0,50-1-2€ denominations. When configuration is S11+AH4, the unit must be set accordingly, depending on whether it will be used in automatic mode (maximum number of tokens is dispensed, plus change is returned in case) or in manual mode (User selects how many tokens he wants).

Automatic mode: acceptance of coins whose value is lower than the token value must be disabled.

Manual mode: the User can select the number of coins that he wants to receive. In this case, he might insert 50€ and choose 1 token (say, value 2€)... which means, that the back-change hopper will return 48€ in coins. If this occurs often, the change hopper will fast get empty, and it will be necessary to refill it very frequently, even though the pieces accepted through the coin acceptor contribute to replenish the hopper.

If token value must include decimals other than 0,50 (i.e. 0,80€, 1,20€, a.s.o.), it is advisable to use two HopperOne S11, and set the handled value to 0,10€ or 0,20€ accordingly. In such case, if the accepted coins must be recycled by the return-change hopper (replace the tube to the cash-box by the one for feeding the hopper), the coin acceptor must be set to accept only the same denomination as the one intended for the return-change (i.e., if return-change=10 cents, acceptor must reject all coins but 10 cents).

2.4 Reference Norms

Development, design and production have been made according to the following EU regulations:

1998/37/CE	On equipments
2004/108/CE (ex 89/336/CEE)	EM compatibility
2006/95/CE (ex 73/23/CEE)	Low voltage equipments
CEI EN 60335	Safety of Electrical equipment
CEI EN 60529	IP Protection

2.5 Warning



- Comply with the instructions in this manual
- Switch power off before any maintenance operation
- Use only within the recommended temperature/humidity range
- When in presence of car exhaust gas or smoke, clean and check the components frequently.
- Wipe clean by a dry piece of cloth (or slightly wet with alcohol)
- Do not use thinners or organic solvents
- The note Validator might reject (or get jammed because of) banknotes that are worn out, cut, wrinkled, stained, wet, oily or greasy, creased, or including heterogeneous materials (such as sticking tape)
- Do not expose the note validator to straight direct sunlight or strong artificial light.

3. Reception and Handling

After testing, the unit and its fittings get carefully packed and separately boxed.

The box(es) get(s) secured to a wooden pallet, so as to reduce to reduce possible damages from loading/unloading and freight operations.

3.1 Reception

Upon receiving the unit, make use of a forklift truck to move the boxes.

Before signing the reception papers, check the outer state of the boxes. Then open the boxes and check that the goods have not been damaged during transport. If any damage appears, inform the forwarder and have your complaint written on the reception papers.

Then write "with reserve of further checking" and sign it. Keep a copy signed by the forwarder.

If the unit(s) must be stored before installing it, keep it inside its box, and store it in a place protected against deep cold, heat and humidity.

3.2 Opening the box

Cut the tightening belts (take care against possible "whip-lash". Then remove nylon covers and protection films.

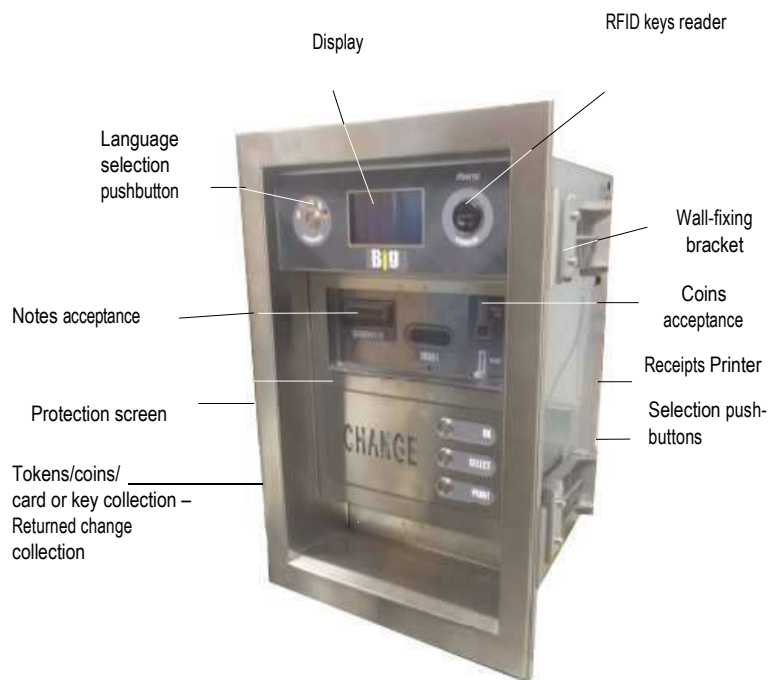
Take out the fastening staples from the box and open it. Take care not to scratch the unit surfaces while pulling it out of its box.

Place the unit in upright position.

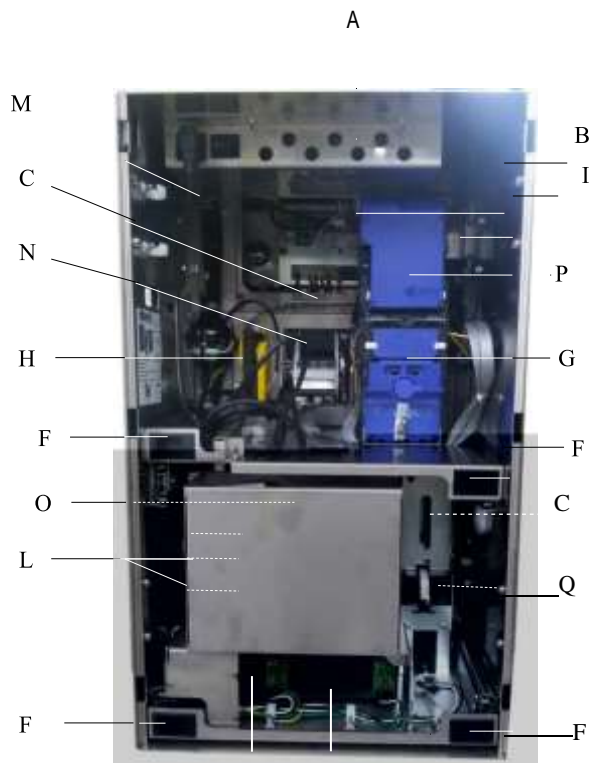
Please notice: all the packing materials, wooden pallet included, must be recycled or disposed of in compliance with the existing European, National or local Regulations.

4. Parts Denomination

OUTSIDE VIEW



POS.	COD. ART.	DESCRIZIONE
A	AE-0806	RD-125 Power box
B	SH-1D41-000T (as option: SH-1D41-000T)	ChangeOne CCG, with 5" blue display (as option: TFT display)
C	C-050403-005	1 x 5-led bar
D	K-02C-020003	HopperS11 ccTalk STD
E	K-02C-040016 or K-02C-020003	HopperOne AH4 ccTalk STD or HopperS11 ccTalk STD
F	C-070503-000	Drawer release buttons (for service and Hopper Refilling)
G	LB-MC0E-0100	Note validator VEGA ccTalk
H	GE-66SU	Electronic coin acceptor AL66S ccTalk
I	AA-0106	Heater Kit
L	PL-MD0T-000H	3 x Vandal-proof 12V RGB luminescent pushbutton
M	CH-BC00	ACS ccTalk reader for RFID keys
N	AA-0136	Receipt Printer (option)
O	-	POS or PayTer RFID card reader
P	AA-0210	Recycler VEGA RC Twin
Q	A-CM0326	Key Dispenser



D E
INSIDE VIEW

5. Dimensions



All measures in mm

Wall-fixing brackets fit to wall thickness comprised between 70 mm - 450 mm



TAKE CARE! Do not use alcohol to clean the illuminated front slats

6.1 Cautions and dangers when installing

 The unit must be installed by qualified technicians, skilled in handling, preparation and mounting, electric connections, and start-up.



Handle the equipment safely. Make use of safety gloves and shoes. Take care of stability, to prevent any risk of danger to people.



Keep power supply disconnected during installation and during any further maintenance or servicing.



Do not modify the circuits in the unit. Any change could impair the correct functioning of the safety circuits. The power line must comply with the Norm CEI 64-8/7.



The section of the ground lead must not be smaller than the one prescribed by the Norm CEI 64-8/4.

It is recommended that the line be placed under the protection of a 10A differential switch, so as to make it easy to take power off when servicing.



6.2 Mounting

The equipment has been certified as IP54 protection degree. However, it is recommended to instal it away from direct weather agents as rain/hail and sunlight..

6.2.1 Wall-mount (recessed) or Pedestal-mount:



MAKE SURE THAT THE WALL IS STRONG ENOUGH TO SUSTAIN THE BACK-WEIGHING BURDEN OF THE UNIT FRAMEBOX.

Preset the 400x690 mm cut-out for housing the unit. See quotes in drawing above (section 5).

- Push the machine in the wall (or in the pedestal cubby-hole) cut-out until the outer frame leans against the outer side of the wall (or of the pedestal front frame).
- Loosen the fastening bolts of the sliding element of the fixing clamps.
- Position the sliding elements so that they grip firmly against the wall (or against the inner face of the pedestal front panel).
- Fasten firmly the machine by tightening the bolts of the fixing clamps.
- See § 6.2.2 for electrical connections.

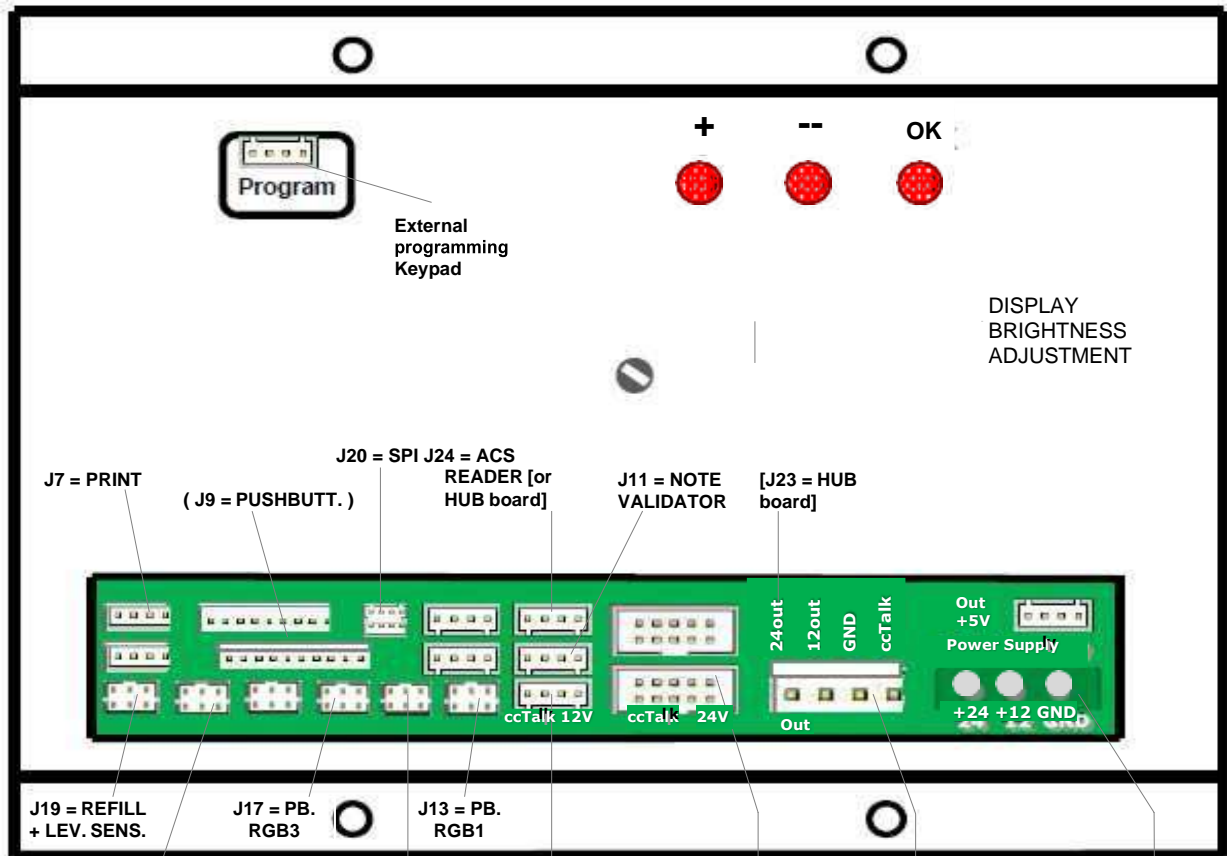
6.2.2 Electrical connections



The power line must be disconnected during installation.

Slip the power cable into the equipment by the side round cut-out, stick it to the power supply box socket, then press the ON/OFF switch near the socket. Lock back the rear door.

No connections are necessary inside the unit. Main board connections are shown in the following page.



J1 = PWR IN

Pin 1. +24V
Pin 2. +12V



[POWER IN]

Pin 3. GND

24 12 GND

J10, 11, 12, 24, 25 = CC12

Pin 1. DATA
Pin 2. GND
Pin 3. NC
4. +12V



[AL66 COIN ACCEPT. / NOTE VALIDATOR / RFID ACS READER] Pin

J8, J23 = CCT

Pin 1. DATA
Pin 4, 8. GND
Pin 7, 10. 24V
Pin 2, 3, 5, 6, 9. NC



[2 x HOPPERONE S11] or [HOPPER S11 + AH4]; [HUB board]

J4 = PWR OUT

Pin 1. DATA CCT
Pin 2. GND
Pin 3. +12V
+24V



[connects peripheral units through HUB board: i.e. opt. KEY DISPENSER, ...] Pin 4.

J13, J14, J17, J18 = RGB PUSHBUTT.

Pin 1. MICRO N.O.
Pin 2. LED R (red)
Pin 3. +12V
Pin 4. LED B (blue)
Pin 5. GND
Pin 6. LED G (green)



[RGB ILLUMINATED PUSHBUTTONS: RGB1 = OK; RGB2 = SELECT; RGB3 = PRINT; RGB4 = Courtesy Languages]

J19 = REFILL

Pin 1. MICRO or KEY > REFILL / RESET CREDIT
Pin 2. LEVEL SENSOR HOPPER
4, 6. NC
Pin 5. GND



[REFILL/LEVEL SENSOR HOPPER] Pin 3,

J7, 5 = PRINTER

Pin 1. GND
Pin 2. RX
Pin 3. TX
Pin 4. +12V



[optional PRINTER]

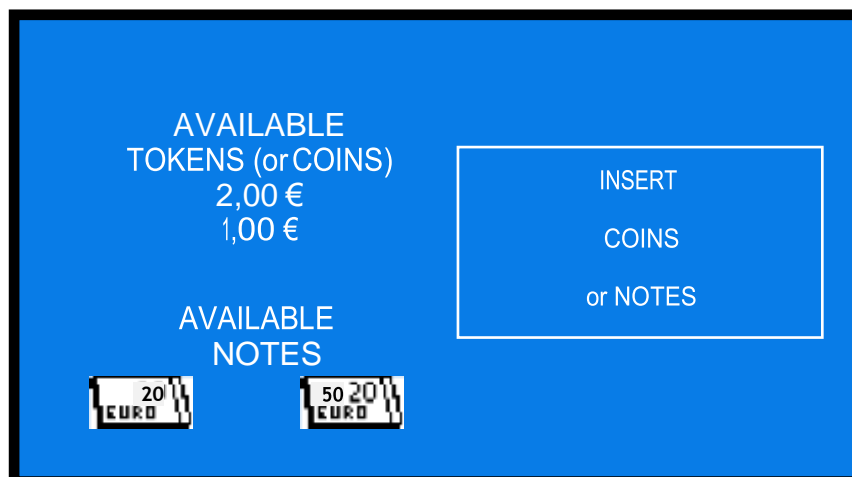
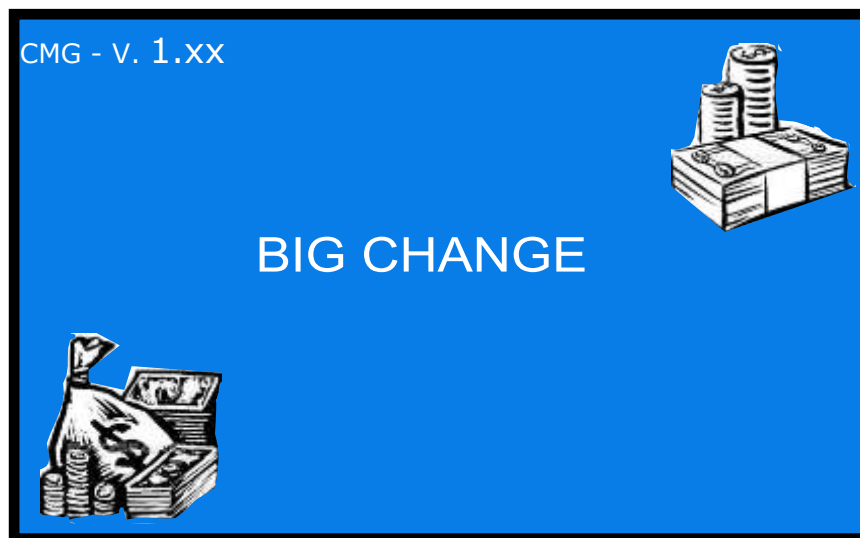
7. Switch-on

Open the equipment door, then release the Hopper drawer by the latches at the drawer sides, and pull it outwards. Pour the Tokens/Coins inside the Hopper S11 (rightside, seen from the rear), and the mixed coins (0,50€-1.00-2.00€) in the Hopper AH4.



PLEASE TAKE CARE! Refill the Hopper always and only when the machine is off!

Push the hopper back to its working position. Turn to 1 the power box switch, and close the door. The unit will check the status of the components in the circuit. When the check ends, the display will show the stand-by message:



If it is necessary to change the value of the tokens to be dispensed, please see the section **9.3.6.3 Setup Dispensing/ Payout Mode** in the Configuration Menu.

8. Operation

The unit can be set to work by Automatic Mode or by Manual Mode.

8.1 Automatic Mode Operation

When inserting a banknote or a coin whose value is lower than the set token value, the machine will prompt for more money to be introduced. When introducing a banknote or a coin whose value is equal/multiple or higher than the set token value, the machine will automatically dispense the highest amount of tokens/coins that can be bought by the inserted amount.

- If the machine has been set to dispense tokens + Return Change, and there remains credit not sufficient to buy one more token, change will be returned. The display will show the amount introduced and the dispensed amount. If there remain no coins in the back-change hopper, and the printer is built-in, the eventual remaining credit will be printed out, so that the User can redeem it from the Operator. If no printer is available, the displayed credit will remain available for additional top-up.

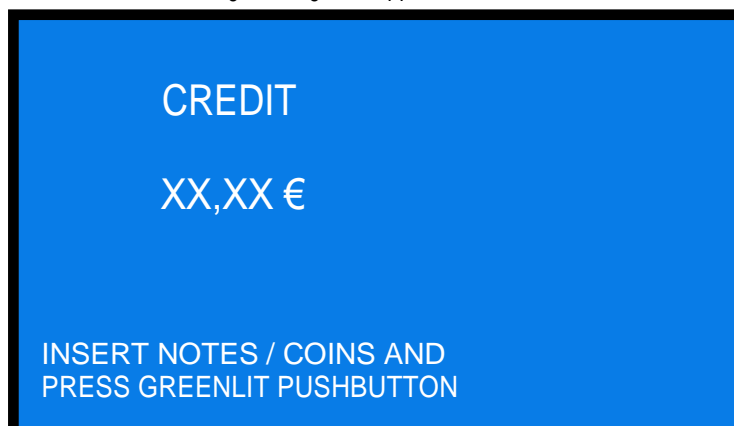


If there are no more tokens in the hopper, the unit will not be able to dispense the whole inserted amount. The display will show the remaining credit. Switch the unit off, refill the hopper, and turn power on again: the remaining credit shall be paid and cancelled.

- If the machine has been set to dispense tokens or coins, and the printer is built-in, the eventual remaining credit will be printed out, so that the User can redeem it from the Operator. If no printer is available, the credit will remain available for additional top-up.

8.2 Manual mode operation

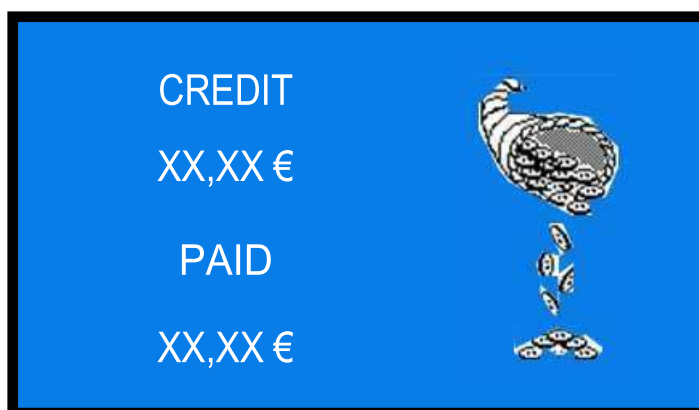
When introducing a banknote or a coin, the following message will appear:



The following actions depend on which one between the two available manual options has been set by the operator: 1P or 2P MODE (please see section 9.3.6.3 **Setup Dispensing / Payout Mode**)

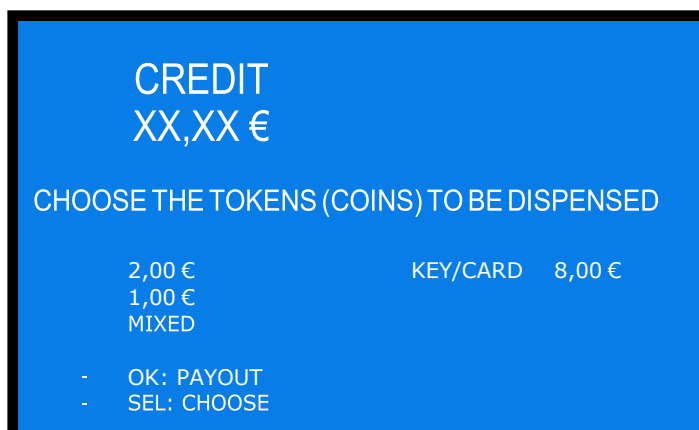
MANUAL 1P MODE:

- if the machine has been set to dispense Tokens (or Coins): when inserting money, the light of the button(s) corresponding to the tokens/coins that the inserted amount can buy will switch from blue to green. To start the payout, touch the SEL or the OK pushbutton, according to the token/coin that you wish to receive.
- if the machine has been set to dispense Tokens and to return remaining credit (Tokens+Change): when inserting money, the light in the OK, SEL and PRINT buttons will switch from blue to green, and the display will show the highest amount of tokens that can be bought by the introduced money. Press SEL (= "-") as many times as necessary to attain the desired amount (press PRINT = "+" to increase/correct the quantity), then press OK. The tokens will be dispensed, the eventual change will be returned, then the following message will appear:



MANUAL 2P MODE:

Only by this mode it is possible to allow purchase of Key or Card. If the machine has been set to operate in MANUAL 2P mode, and money is inserted, the light of the OK and SEL buttons will switch from blue to green, and the following prompt will appear:



Press SEL to choose the option that you want to choose, then press OK to have it dispensed.

If the cashless Key/Card is purchased, and the inserted amount is higher than its price, after the delivery of the Key/Card the user will be prompted to choose again among the available options, until the remaining credit has been covered.

If the printer is built-in, the eventual remaining credit will be printed out, so that the User can redeem it from the Operator.

IMPORTANT NOTE: the AH4 Discriminator Hopper can handle only 0,50-1-2€ denominations. If the unit includes one AH4 hopper, its settings must be programmed accordingly, depending on whether it will be used in automatic mode (maximum number of tokens is dispensed, plus change is returned in case) or in manual mode (User selects how many tokens). Automatic mode is to be preferred when AH4 Hopper is built-in: beware to disable the acceptance of tokens whose value is lower than the token value.

8.3 PRINT RECEIPT

Whenever the machine dispenses or gives change, the print button lights on green. The display shows "PRESS GREEN BUTTON FOR RECEIPT".

If the user wants the receipt to be printed out, he should press the button while this remains green lit.

8.4 USE OF THE (OPTIONAL) CHIPCARD READER POS TERMINAL

This device operates in manual mode by default, no matter if the dispensing mode has been set to Automatic mode or to Manual mode.

8.4.1 PAYTER TERMINAL

When the machine is in stand-by, the Payter display invites the user to press the “SEL (-)” button, to enter the PayTer purchase mode. Once pressed the button, the purchase of token 1, token 2, mixed tokens, or Key/Card is proposed. Do as follows:

- touch the “SEL” or “PRINT” button as many times as necessary to obtain the option, then
- press the “OK” button;
- if you have chosen Token 1 or Token 2, touch the “SEL or PRINT” button as many times as necessary to obtain the wished quantity, then
- press the “OK” button, and
- lean your RFID ChipCard against the PayTer sensor

The machine will dispense the selected number of tokens, and the bank network will deduct the equivalent amount from your ChipCard.

8.4.1 INGENICO TERMINAL (ONLY EASTERN EUROPE COUNTRIES)

Do as follows:

- press START on the Ingenico Terminal. It will show the preset purchase value.
- the terminal display shows “SELECT A PRODUCT”: press the green lit button
- choose among Token 1, Token 2, mixed tokens or purchase of Key/Card. When choosing purchase of Key/Card, the terminal shows the price
- put the card on the terminal: transaction is accepted, the message “Please wait, dispensing product” is displayed; The machine will dispense the chosen option, and will deduct the equivalent amount from your ChipCard.

8.5 RESIDUAL CREDIT

If there are not enough coins in the hopper to return the change needed, and the printer is installed, the printer will automatically print the residual credit, so that the User can redeem it from the Operator. If the printer is not installed, or it is out of service, the remaining credit shall be displayed and retained in memory.

Switch off the machine, fill the hoppers, and switch on again: the remaining credit shall be paid.

8.6 RFID KEY READER

NOTICE: see first “Cashless setup” (section 9.3.6): the Key reader and the keys must be initialized before use!

According to the RFID key owned, it is possible to get access to the following functions:

Enabled Operations	Master Key (black) - owner	Service Key (white) - manager	Keeper Key (yellow) - operator
1. Initialize Service (white) key	YES	NO	NO
2. Initialize Operator (yellow) key	YES	YES	NO
3. Load Credit on keys	YES (from Menu)	NO	NO
4. Check Accounts (totals and partials)	YES	NO	NO
5. Check Accounts (partials only)	YES	YES	NO
6. Check latest event	YES (press SEL for 4”)	YES (press SEL for 4”)	YES (press SEL for 4”)
7. Print Accounts (if printer is available)	YES	NO	NO
8. Reset Accounts Data (all)	YES	NO	NO
9. Reset Accounts Data (partials only)	YES	YES	NO
10. Reset of paid residual credit	YES	YES	NO
11. Manual Refill of dispensers	YES	YES	YES



Access to the functions that can be modified by the Master Key is allowed only by entering the PIN code.

Whenever the Master Key or the Service Key gets access to the Accounts menu, the displayed data get automatically downloaded in the key. Each key can contain up to 10 downloaded sets, from the same or from different units. Such sets can be retrieved and stored by the ACR programming station K-P4N-000007 and the relevant software.



8.6.1 Operation with User Key

The RFID User keys must be initialized before use (see Menu Setup in following pages).

When inserting a compatible RFID User key (same password as the reader), the available credit appears:



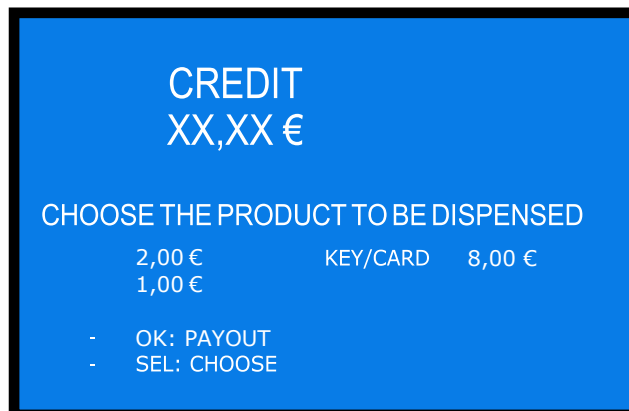
- **To load up credit**

Insert notes or coins, then press the greenlit "LANGUAGES" button. The new total amount will be shown.

- **To purchase products (Tokens, Key/Card)**

MANUAL 2P MODE:

Press the greenlit "OK" button; the following prompt will be displayed:



Press SEL to choose the option that you want, then press OK to receive one piece of the chosen option (i.e. one Token A, or one Token B, or one Key/Card).

MANUAL 1P MODE):

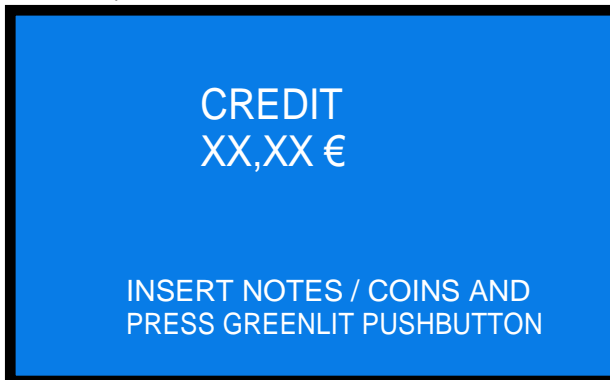
This mode does not allow Key/Card purchase. Press the greenlit "OK" button; the following prompt will be displayed:



Press OK to receive the tokens, or press SEL="-" as many times as necessary to attain the desired amount (press PRINT="+" to increase/correct the quantity), then press OK to receive the tokens.

AUTOMATIC MODE:

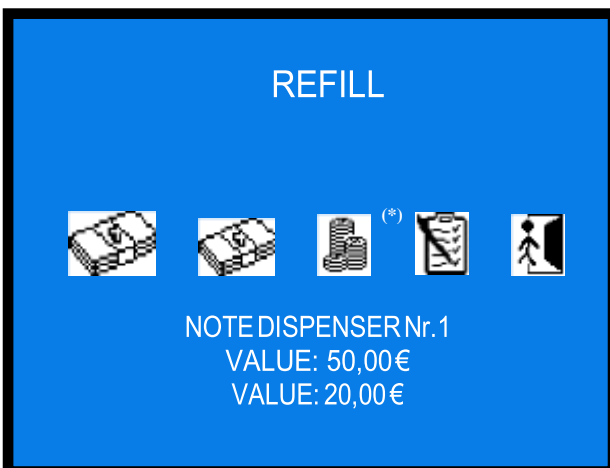
It is only possible to load credits in the RFID Key. The available credit appears:



Insert notes or coins, then press the greenlit “LANGUAGES” button. The new total amount will be shown.

8.6.2 Operation with Service or MasterKey

Insert the Service Key (white) or the Master Key (black) to get access to the Service Menu (no need to open the machine). The Service menu allows to: 1 & 2) Refill the recyclers of the Note Validator(s); 3) Refill the Token/Coin Hoppers; 4) Get access to the Management restricted Menu; 5) Exit.



() Not available in this machine*

Navigate the Service menu by the SEL button, and confirm by the OK button.

By selecting the first banknote icon and confirming, it is possible to fill the note recycler(s) of the Note validator Nr. 1.


By selecting the second banknote icon and confirming, it is possible to fill the note recycler(s) of the optional Note validator Nr. 2 (if built-in).

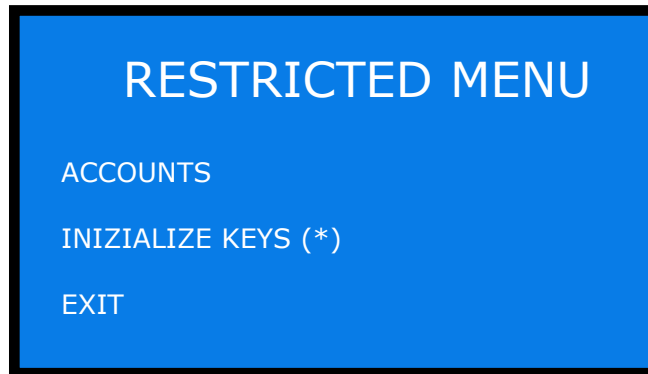
Press OK: the following table will be displayed, showing the denominations and the pieces available at present in the dispensers:



Insert the banknotes, one by one: the table will show the quantity introduced. When finished, press SEL to move to the following option (Note Dispensers Nr. 2 or Management Restricted Menu).

The Restricted menu allows to: 1) read, print and cancel Accounts data; 2) initialize the User Keys.

The Service Key can only to read and reset the Partial Accounts; the Master Key can print and reset any Accounts. Choose Reserved menu () to get access to the Audits data:

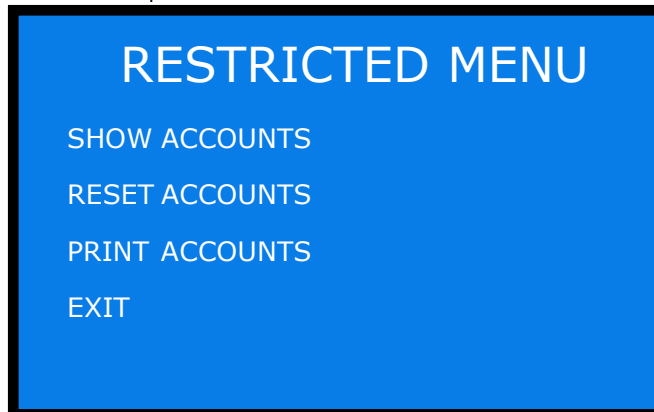


(*) by Master Key only

Highlight the relevant function by the SEL / PRINT buttons, then confirm by OK button to get access.

8.6.2.1 ACCOUNTS

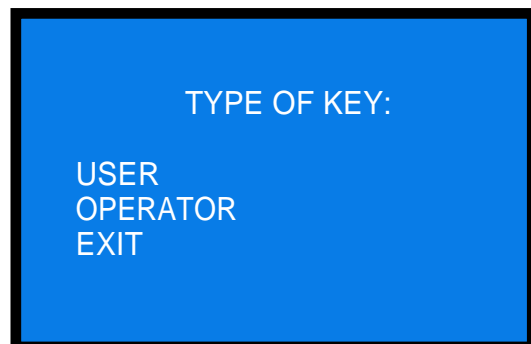
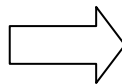
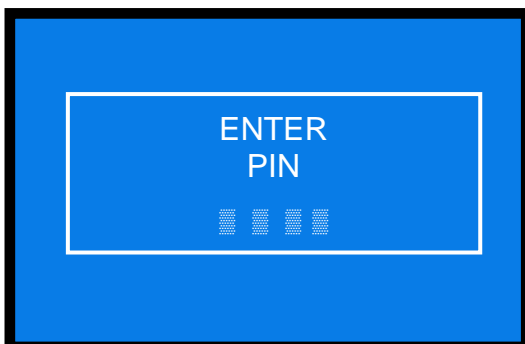
This sub-menu provides records about the cashed, dispensed, refill data, as well as to the latest transactions made. It also makes it possible to cancel partial and total accounts, as well as to print them out.



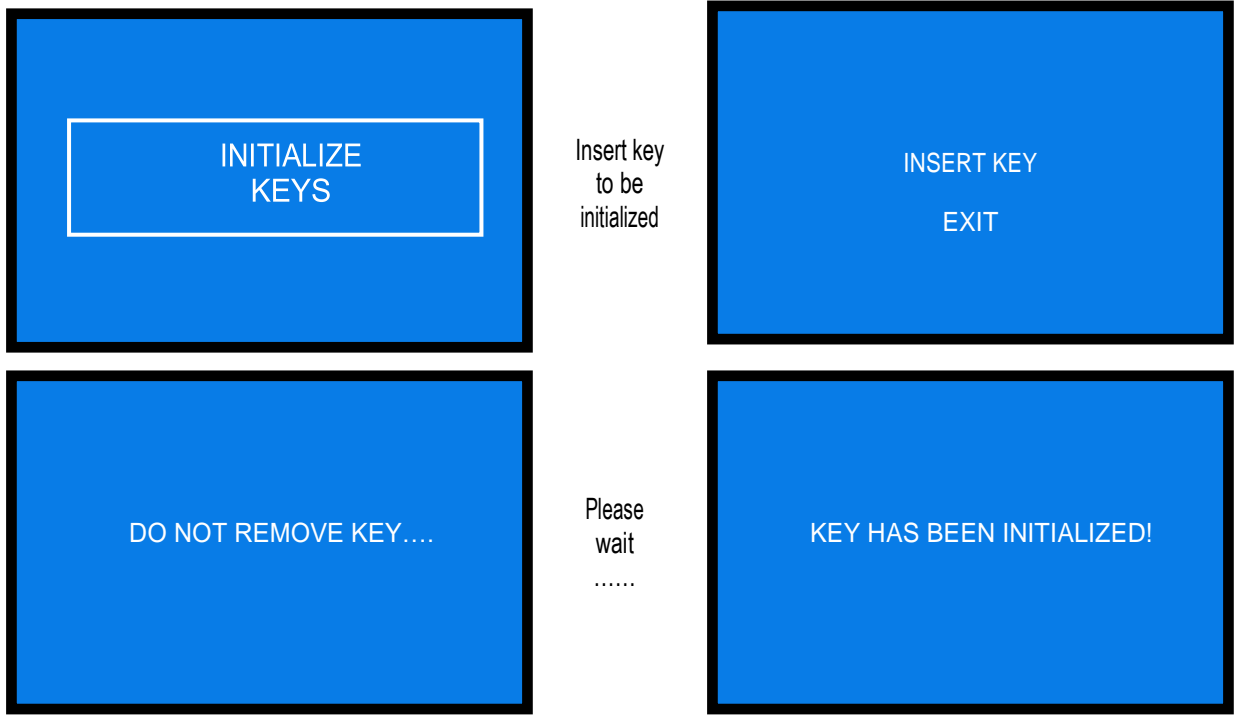
See section 9.3.4 for the list of the displayed data.

8.6.2.2 INITIALIZE RFID KEYS

When choosing this option, you will be requested first to enter the machine 4-digit PIN:



Choose the type of key that you want to initialize, and press OK to initialize it/them. The Display will prompt you to insert the first key.



Remove the initialized key

(* if the key is damaged or not compatible, the following message will appear:
 'THIS KEY IS NOT ENABLED'

NOTICE:
 it is possible to load the User Keys either by the same Key reader of the unit, or by the ACR programming station (K-P4N-000007).

ACR programming station for RFID keys (K-P4N-000007)



9. Set up

9.1 Default configuration

Default presetting is as follows:
PCBoard Parameters

- Hopper S11 (nrs. 1-2) [ccTalk]*
- Hopper AH4 (nr. 2) [ccTalk]*
- AL66S [ccTalk] coin acceptor*
- VEGA Notereader [ccTalk]*

- Type of distribution = AUTOMATIC
- Cashless Bonus = DISABLED
- Level Sensors = DISABLED
- Token / coin value = € 2.00
- Mixed coins (0.50 – 1.0 – 2.00)
- € 0.50 - - € 2.00 = ENABLED
- € 5.00 - - € 100.00 = ENABLED

9.2 How to restore Default Configuration when in need

If unwanted modifications are made, the default configuration can be restored from the control board buttons (on the board housing, behind the display) as follows:

- press OK, + and - buttons at the same time for 5", then:
- by pressing -, go to **RESTORE DEFAULT CONFIGURATION**, then:
- press again OK; the message "Default Configuration restored" will be displayed.

PLEASE BEWARE ! : the command **RESTORE DEFAULT CONFIGURATION** will reset also the default PIN code (0000).

9.3 Set Up Menu

9.3.1 GET ACCESS AND SCROLL THE MENU

To enter the menu and to navigate it, press simultaneously for 5 seconds the 3 keys (“+”, “-”, “OK”) located behind the display (on the machine main board).

As an alternative, the external programmer keypad (K-P3N-000006, see here beside) can be used: connect its cable to the “Program” socket in the main board (see page 10).

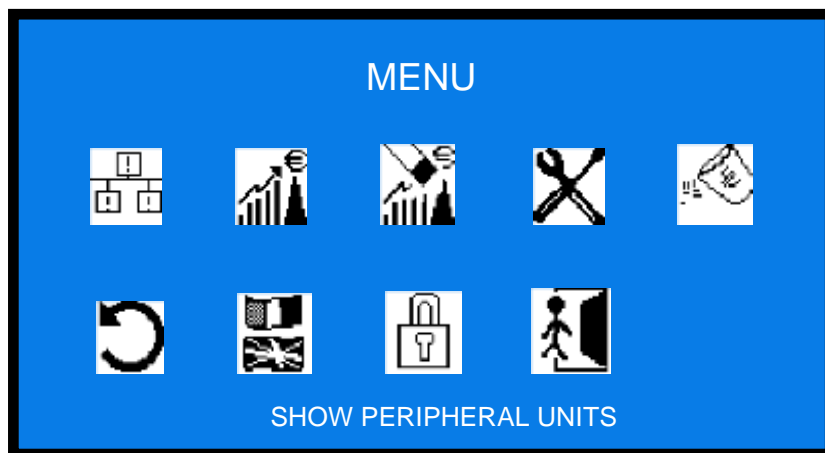


OK confirm selection
- navigate the menu; modify figures or letters
+ navigate the menu; modify figures or letters

To exit the menu, click “+” or “-” until highlighting the  (EXIT) icon, then confirm Exit by the OK key.

9.3.2 MENU STRUCTURE

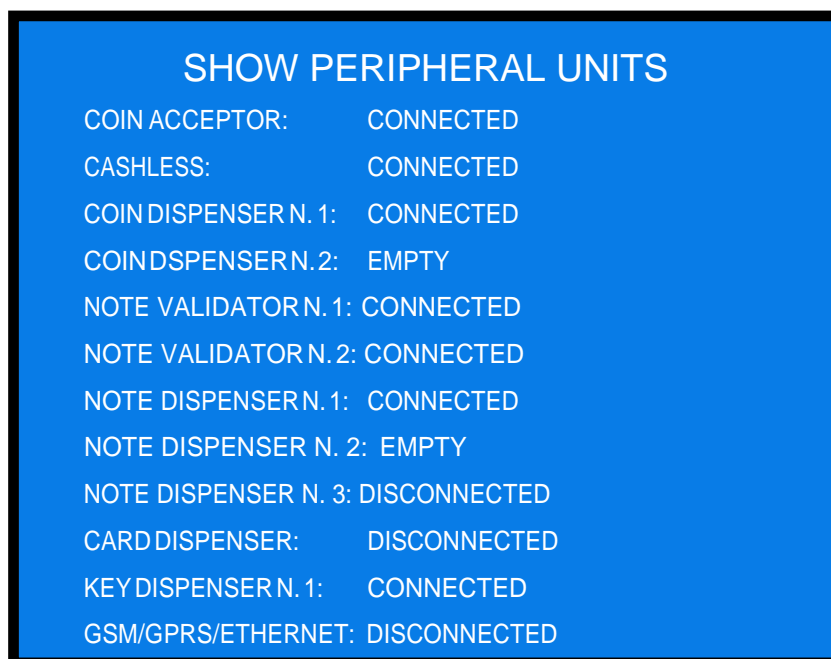
Notice: access to some sub-menus is protected by the PIN.



9.3.3 SHOW PERIPHERAL UNITS



This function shows the state of the input and output devices, for instance:



Press OK to go back to main menu.

9.3.4 CHECK ACCOUNT RECORDS



SHOW	
TOTAL IN:	00,00 €
TOTAL OUT:	00,00 €
NOTES IN:	00,00 €
NOTES OUT:	00,00 €
COINS IN:	00,00 €
COINS OUT:	00,00 €
REMAINING CREDIT PAID (*):	00,00 €
TOTAL REFILLED NOTES:	00,00 €
TOTAL REFILLED COINS:	00,00 €
LAST CANCELLED PARTIALS (**):	00,00 €
CASHLESS IN:	00,00 €
CASHLESS RECHARGED:	00,00 €

(*) If there are not enough coins in the hopper to return the change needed, the remaining credit shall be displayed and retained in memory. Switch off the machine, fill the hoppers, and switch on again: the remaining credit shall be paid.

On some models, as an alternative, it is possible to cancel the message of remaining credit by inserting the Master key; the Operator can therefore manually pay the credit left to the Customer, while the cancelled amount will be recorded in the Accounts section (see 9.3.5 RESET ACCOUNTS).

(**) Whenever the Partial Amounts record get cancelled (see section 9.2.3 RESET ACCOUNTS), the previous value recorded in "Last Partial cancelled" gets replaced by the amount that has just been reset.

PRINT ACCOUNTS: when the machine includes the printer and the RFID Keys Reader, it is possible to get a strip reporting the state of the accounts. Proceed as follows:

1. Insert Master (Black) key to get access to the Service menu
2. Press SEL to select the RESTRICTED MENU icon, and press OK: display shows "ACCOUNTS"
3. Press SEL to select the option "PRINT ACCOUNTS" and press OK.

9.3.5 RESET OF ACCOUNTS



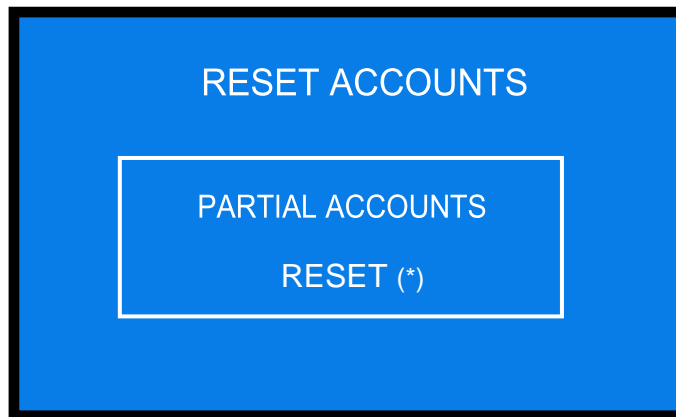
To use this sub-menu. This function allows to cancel the account records (both paid out and cashed in) of the machine.

RESET ACCOUNTS	
RESET TOTALS	
RESET PARTIALS	(*)
EXIT	

Highlight by pressing OK: to cancel the partial accounts, just confirm by OK; to cancel Totals, press OK and enter the PIN code.

RESET ACCOUNTS	
ENTER PIN	
■ ■ ■ ■	

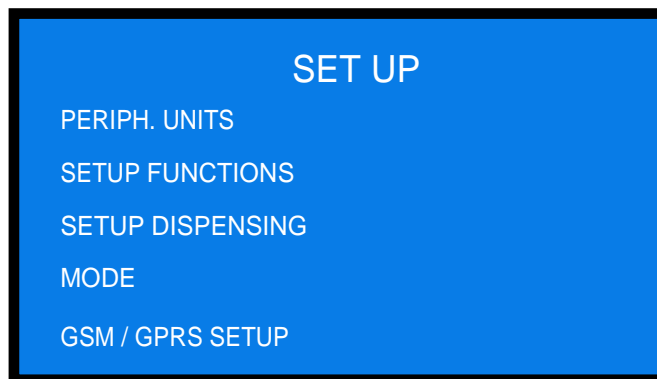
For each of the 4 digits of the PIN, use + and - to highlight the figure wanted, then confirm by OK. Once confirmed the fourth digit, reset will start and the display will show:



9.3.6 SYSTEMSETUP

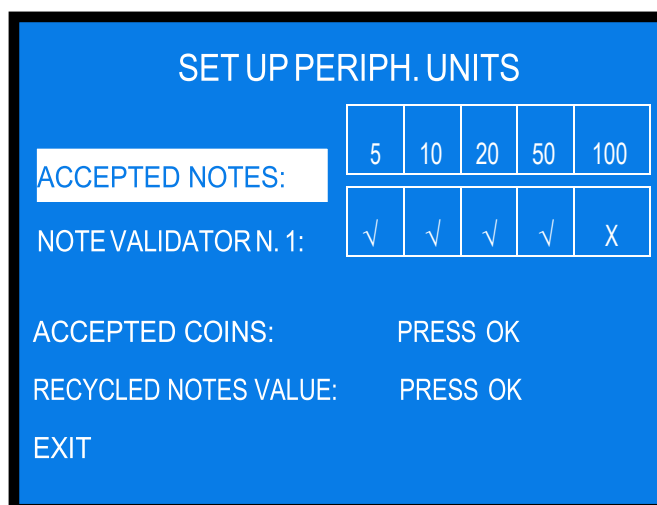
By this menu it is possible to configurate the Peripheral Units (cctalk coin acceptor, ccTalk note validator, ccTalk hoppers, cashless units), various functions of the machine, and the Pay-out mode (Automatic/Manual).

The following diagrams show a simplified description of the options available.



9.3.6.1 PERIPHERAL UNITS SETUP

This section allows to set A) note denominations to be accepted; B) coin denominations to be accepted; C) coin/token denominations dispensed.



9.3.6.1.A SET UP THE ACCEPTED NOTE DENOMINATIONS

Confirm by the OK button. All the programmed note values (5-to-100 €) are enabled by default. To modify this condition, press OK to highlight the first option (ex. 5€), then press + or - to reverse its state. Press OK to shift to the next option (ex. 10 €) and so on, until getting back to the menu above.

SET UP PERIPH. UNITS					
ACCEPTED NOTES:	5	10	20	50	100
NOTE VALIDATOR N. 1:	√	√	√	√	X
ACCEPTED COINS:	PRESS OK				
RECYCLED NOTES VALUE:	PRESS OK				
EXIT					

9.3.6.1.B SET UP THE ACCEPTED COIN DENOMINATIONS

Among the accepted coins (0.05-to-2€), the following ones are enabled by default: 0.50€ - 1.00€ - 2.00€. To modify this condition, press OK to get to the setting table.

SET UP PERIPH. UNITS					
ACCEPTED NOTES:	5	10	20	50	100
NOTE VALIDATOR N. 1:	√	√	√	√	X
ACCEPTED COINS:	PRESS OK				
RECYCLED NOTES VALUE:	PRESS OK				
EXIT					

First option (i.e. 2€) shows as enabled ("√") or disabled ("X"). Press + or - to reverse its state. Press OK to shift to the next option (ex. 1 €), and so on, until getting back to the menu above.

SET UP PERIPH. UNITS					
ACCEPTED COINS					
2,00	1,00	0,50			
√	√	√			
0,20	0,10	0,05			
X	√	X			

9.3.6.1.C SET UP THE RECYCLED NOTE DENOMINATIONS

Default presetting for the notes that after being accepted will be stored in the recyclers of the Note validator N. 1 is 50 € and 20 €. It is possible to choose among the following combinations: 50 € and 20 €, 50 € and 10 €, 20 € and 10 €.

PERIPH. UNITS SET UP					
ACCEPTED NOTES:	5	10	20	50	100
NOTE VALIDATOR N. 1:	√	√	√	√	X
ACCEPTED COINS:	PRESS OK				
RECYCLED NOTE VALUE:	PRESS OK				
EXIT					

Highlight the line and press OK to modify it. If the dispensers contain notes, you will be prompted to empty them out before changing the combination. The following setting table will appear:

PERIPH. UNITS SET UP	
RC1	RC2
50,00 €	20,00 €
50,00 €	10,00 €
20,00 €	10,00 €

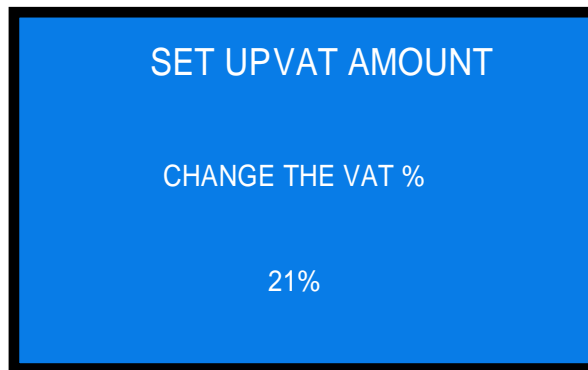
9.3.6.2 FUNCTIONS SETUP

This function makes it possible to set: 1) the amount of the local VAT %; 2) the Bonus given as gift for purchasing credits on the User RFID Key; 3) the date and time that will appear on the printed receipts; 4) the price of the Key/Card.

FUNCTIONS SETUP
SET UP VAT AMOUNT
CASHLESS BONUS
DATE / TIME
KEY/CARD PRICE
EXIT

Press + or - to highlight the function to be modified, and press OK to confirm.

9.3.6.2.A SET UP THE LOCAL VATAMOUNT



Change the value by the + or - , then confirm by OK.

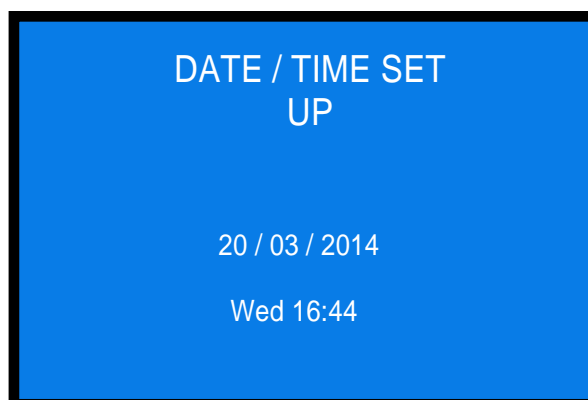
9.3.6.2.B SET UP THE CASHLESS BONUS

LEVEL	EURO	BONUS
1	5	0,00 €
2	10	0,00 €
3	20	0,00 €
4	50	0,00 €

The default value for Level 1 is automatically highlighted. If you do not want to make any modification, just press OK as many times as needed to get out of the setting table. Otherwise, modify the value by + or -, then confirm by OK: the cursor will move to the Bonus box. By + or -, set the total amount to be credited, then confirm by OK: the cursor will move to Level 2. Modify it by + or -, then confirm by OK: the cursor will move to the Bonus box. By + or -, set the total amount to be credited, then confirm by OK: the cursor will move to Level 3, and so on until confirming Bonus of Level 4.

9.3.6.2.C SET UP DATE AND TIME

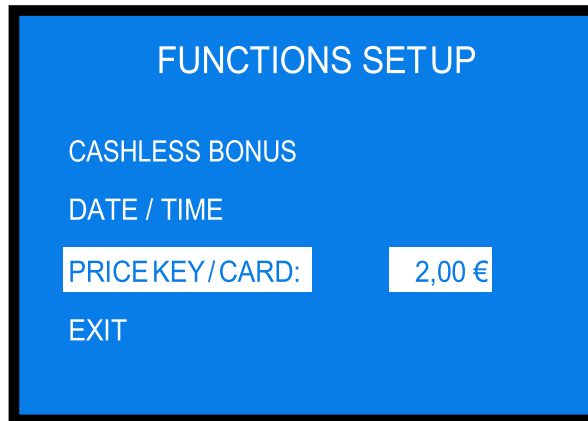
to set the time and date that will appear on the printer receipts.



Press + or - to increase/decrease the highlighted characters:

- day / month / year,
- day of the week,
- hours / minutes.

9.3.6.2.D SET UP PRICE FOR RFID KEY OR CARD

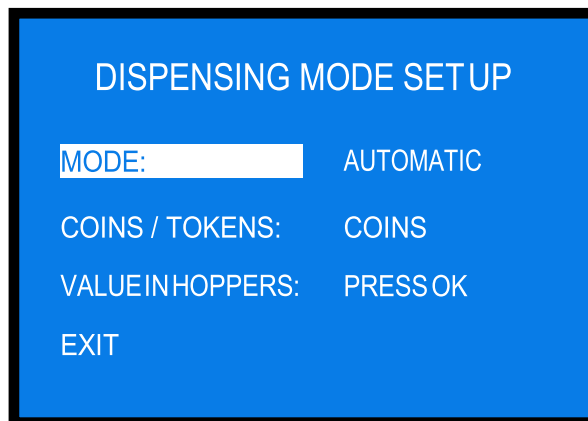


Press OK to highlight the price of the Key / Card; then set it by + or - , and confirm it by OK.

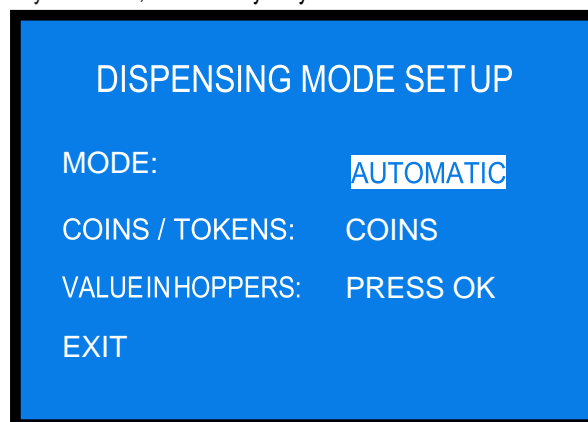
9.3.6.3 SETUP DISPENSING / PAYOUT MODE

This sub-menu allows to set the unit so as to:

- 1) Operate by Automatic mode, or Manual 1P mode, or Manual 2P mode
- 2) Dispense either Tokens or Coins < if set to Automatic or Manual 2P
- 3) Dispense either Tokens or Coins, or else Tokens+Return Change < if set to Manual 1P; in this latter case, the Operator can set the least quantity of tokens that can be purchased
- 4) Set the value of the tokens / coins in the hoppers

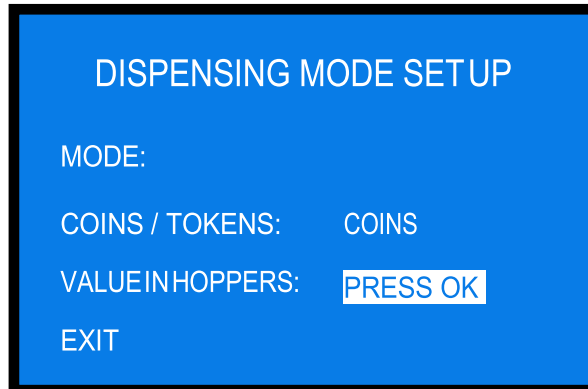


Press OK to highlight the presently set mode, then modify it by + or - :



Press OK to confirm and move to the COINS / TOKENS options. Please pay attention:
IF SET TO "AUTOMATIC" OR TO "MANUAL 2P", options are: either COINS or TOKENS
IF SET TO "MANUAL 1P", options are: either COINS or TOKENS or TOKENS+BACKCHANGE

Press OK to confirm and move to the setting of the token / coin values in the hoppers.



Press OK to get access to the setting table:



Modify the value(s) by + or - , then confirm by OK.

(*) this option is displayed only when the configuration MANUAL 1P, TOKENS+BACKCHANGE has been set. Touch + button as many times as to get to the desired amount, for example 5, and confirm by OK.

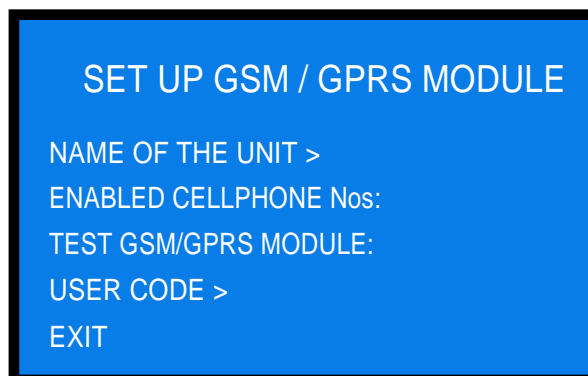
NOTICE: monitoring of level sensors is disabled by default. This means that the unit does not know when the hopper is empty, so it will send the pay-out command even if there are no coins available.

If the unit is powered when the hoppers do not contain coins, the display will warn that the HOPPERS are EMPTY and that the unit is OUT OF SERVICE. If only one hopper is empty, the relevant value will not be displayed as available at stand-by

PLEASE NOTE: IF AND WHEN RE-CONFIGURING THE UNIT FROM TOKEN DISPENSER TO COINS DISPENSER, always activate RESTORE DEFAULT CONFIGURATION and then RESET ACCOUNT RECORDS. If this operation is omitted, the account records will be altered.

9.3.6.4 SETUP GSM / GPRS / ETHERNET MODULE

This sub-menu allows to configure and test the remote control module, if present in the unit.



Highlight the desired option and press OK to enter / modify it.

NAME OF THE UNIT: the name / number that you will digit in this position will appear in the SMS messages sent by the unit to the enabled cellphone numbers entered, and/or in the dashboard of the ARGO Web Portal if the module has been registered to the ARGO remote control system.

By the + and - buttons, locate the letter/digit, and press OK button to confirm your choice; the cursor will automatically move to the next character. After confirming the last character, the name you have digitated gets automatically saved.

ENABLED CELLPHONE Nos: enter here the 3 cellphone numbers that you want to enable to query the module in order to receive Accounts data and information on its service status. By the + and - buttons, locate the number you want to write, and press OK to confirm it; the cursor will automatically move to the next character. Once having confirmed the last digit, confirm as well the whole number entered: you will be prompted to enter the second number, and finally the third.

TEST GSM/GPRS MODULE: the test can be carried out only if a valid SIM Card is inserted in the module relevant slot.

USER CODE: this code is used only for connection to the Argo Web Portal, and is made known to the Subscriber only if registration and subscription to the Argo Portal services has been made.

ADDITIONAL FUNCTIONS - by the SMS mode or the Argo services it is possible to activate the following functions from a distance:

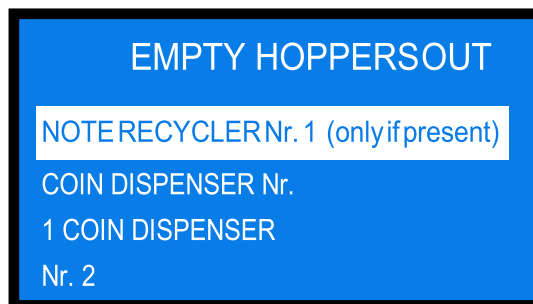
- i. When the Service Status Remote Enable function is active, the machine can be put out of service by sending an SMS (text is "CMD=OFF") from any of the 3 enabled cellular phones. To restore service, send text "CMD=ON".
- ii. When the Remote Payment function is active, it is possible to command the machine to dispense an amount (in €) or a number of tokens (pieces) by sending the following sms text from any of the 3 enabled cellular phones: "OUT=n°:1234" (n° = any value between 0 and 250; 1234 = any combination of figures except 0). In this case, the display will show the password chosen: the User will put the Refill key in the Refill lock (or the RFID key in its reader), and then enter the password by using the buttons SEL (select each number) and OK (confirm each number) to receive the payout.

9.3.6.5 EXIT

Press OK to exit this sub-menu.

9.3.7 EMPTY OUT THE HOPPERS

Use this function to make the selected hopper pay out all the contained coins / tokens.



Select the unit that you want to empty out, and press OK. Depletion will start. When depletion has been completed, the paid out value will be displayed on the same line of the peripheral unit.

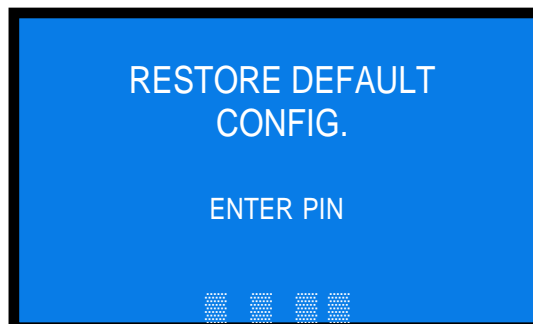
When depletion has been completed, the paid out value will be displayed.

9.3.8 RESTORE DEFAULT CONFIGURATION

To use this sub-menu it is necessary to digit the PIN code.

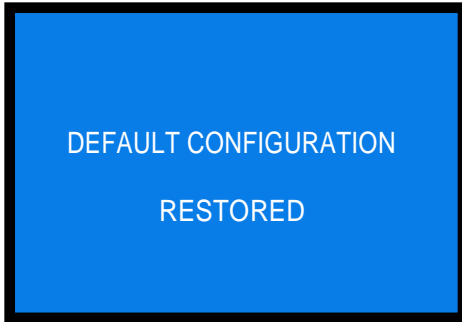
Use + and - to obtain the figure, and confirm it by OK.

The next position will be then highlighted.



If a wrong number is inserted, the following message will appear: "WRONG PIN".

The following message will briefly appear after confirming the 4th figure of the PIN:



The machine shall then go back to stand-by condition.

WARNING: in case of reset, the system sets back to default configuration. The PIN code will be reset to the default 0000 setting. Account records shall not be cancelled.

9.3.9 SETUP LANGUAGE



9.3.10 CHANGE PIN



The PIN code allows to get access to the discretionary menus of the system.

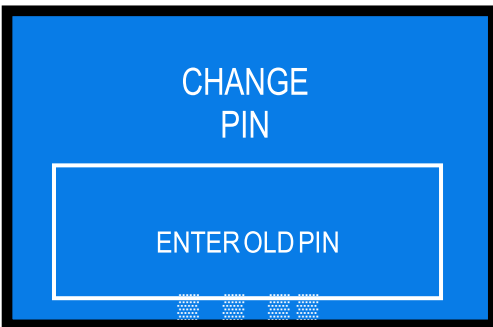
The PIN code is made up by 4 figures (each of them from 0 to 9), so that there are 10,000 combinations available.

If the PIN code is not correct, the User is given another 4 tries before the board gets blocked-up by its security interlock. The system can be started again by switching it off and on again.

ATTENTION: the default PIN code is 0000

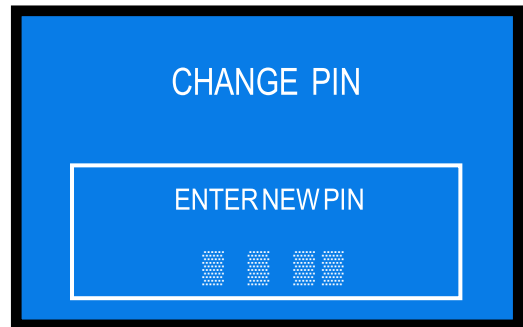
The settings in the following menus can be modified by using the PIN code: MODIFY PIN - RESET ACCOUNTS - RESTORE DEFAULT CONFIGURATION

To modify the existing PIN, press OK, and digit the old PIN code:



to digit each code figure, use keys + and - to set each character, then confirm it by OK. Once the 4th character has been confirmed, confirm by OK the old PIN:

The display shall prompt to insert the new PIN:



To digit the new PIN code, again use first the + and - keys to set each figure, then confirm it by OK. Once the 4th figure has been confirmed, confirm by OK the whole new PIN.

As every single figure gets confirmed, an asterisk takes its place, so preserving secrecy.

NOTICE: when DEFAULT CONFIGURATION gets restored, the PIN code gets reset to 0000.

9.3.11 EXIT MENU




Press OK to go back to stand-by condition:

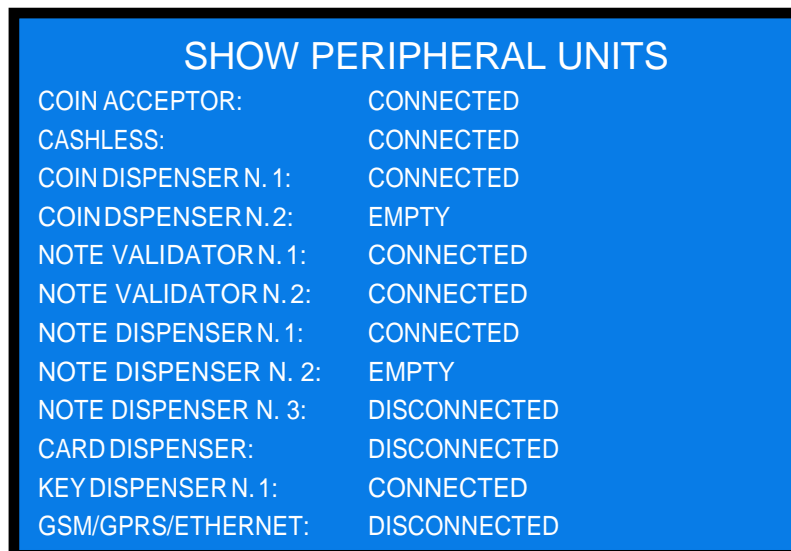
10. Messages

10.1 Messages of faulty operation

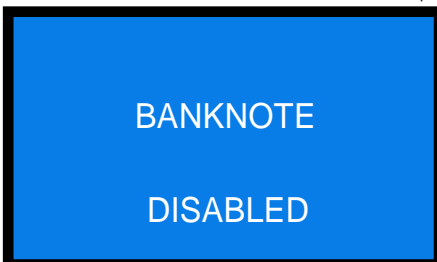
When the token hoppers are empty, the following message will appear:



If the "OUT OF SERVICE" alert appears, check the state of the peripheral units in the menu  : The whole state of the system will be shown in one shot.

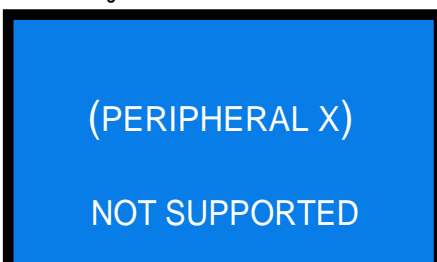


A disabled note denomination can be known but, if it has been disabled, the following message appears:



The banknote will be returned.

The following alert:



means that the named peripheral unit has been detected but it is not supported by the control board (for instance a note validator different from the admitted ones).

10.2 Code RI (Control Board blocked)

The 'Code RI' message means that there has been an event that makes it wise to hold the EPROM from operating.

If and when it pops up, hold down for 5 seconds the 3 OK, +e-buttons (located behind the display pcb) at the same time. Such operation will reset the machine to its default configuration.

It will then be necessary to re-program the setup according to the needs.

In case that the 'Code RI' message pops up again after releasing the 3 keys, it means that the EPROM has been damaged: it will be necessary to replace the board.

10.3 Messages from the note reader

The Leds in the front entry of the validators inform about malfunctions. The following chart shows the possible cases:

State of the unit	Colour	Nr. of flashes	Error description	Suggested solution
Out of service	none	None	Power off	The machine display will also report an error
		None	Communication with control board interrupted	The machine display will also report an error. Check that the dip-switches are correctly set
		None	CPU out of service	The machine display will also report an error. Check connections and cables inside the validator
Out of service	yellow	variable	ROM or RAM out of service	See Vega manual, chart 13, according to the number of flashes
Jammed notes	red	variable	notes or parts clogging the reading path	Check the reading path
			Configuration malfunctioning	See Vega manual, chart 13, according to the number of flashes
Rejected notes	yellow	variable	DIP switches have been wrongly set	See Vega manual
			Sensors are dirty	Clean the sensors in the reading path
			Sensors malfunction	See Vega manual, chart 14, according to the number of flashes
Diminished acceptance rate	yellow	variable	Software not updated to recently minted notes	Check that the note and its minting year are consistent with the software update version
			Sensors are dirty	Clean the sensors in the reading path
			Sensors calibration required	Check the flashing pattern, then See Vega manual, chart 14, according to the number of flashes Carry out the calibration test.

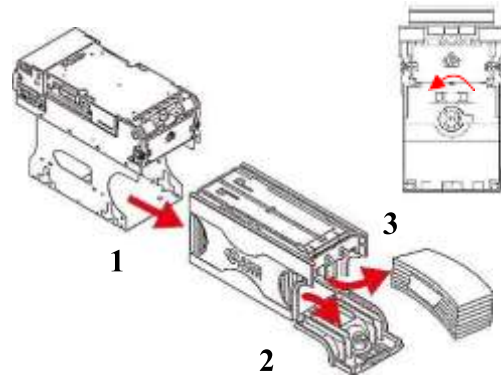
11. Maintenance of the notevalidator



PLEASE PAY ATTENTION! Switch power off before opening the validator.

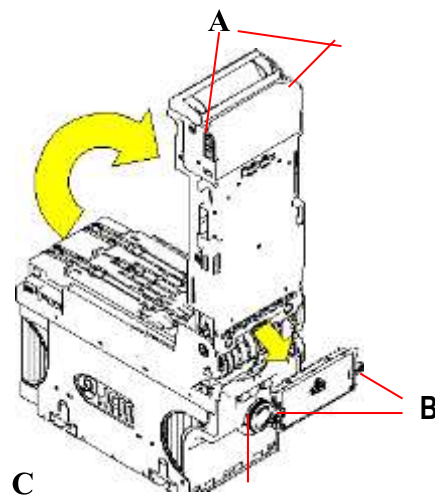
- Retrieving Banknotes

1. Pull the Release Handle to free the Cash Box from the Frame and pull the Cash Box forward.
2. Rotate the Thumb Lock Knob counterclockwise and drag down the Cash Box Door
3. With the Cash Box Door open, retrieve the Banknotes



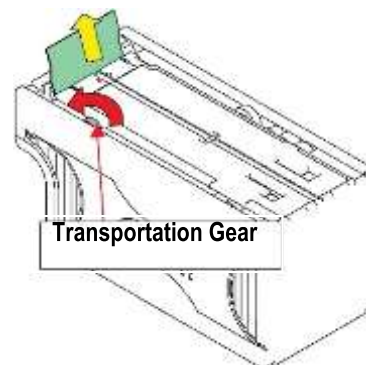
- Clearing a Banknote Jam

1. Do not power up the validator during this operation.
2. Press buttons A and lift the Upper Validation Section open.
3. Remove the Course Reversing Guide Cover by pressing in on the two buttons B.
4. Turn the Thumb Lock Knob C to gain access to the jammed Banknote
5. Remove the jammed Banknote or any foreign object jamming the transport path.




- Clearing a Banknote jammed in the stacker

1. Do not power up the validator during this operation.
2. Remove the cash box.
3. Rotate the Cash Box Banknote Transportation Gear in the necessary direction to remove the jammed Banknote.



Cleaning the note validator

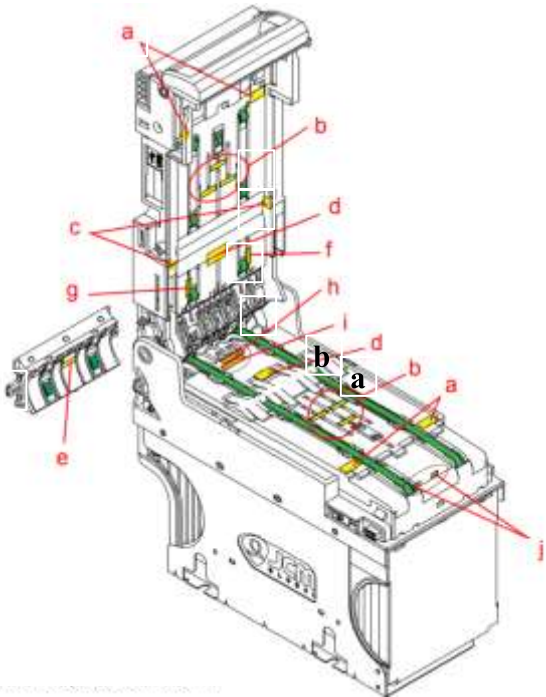
 **CAUTION:** Do not use alcohol, thinner or citrus based products for cleaning any inner or outer surfaces.

Cleaning the Banknote Recycler's Transport path is very important. Adhering Iron powder or dirt on the Recycler's Sensors may cause poor performance or errors. Perform a scheduled cleaning at least once a month to keep the Recycler Transport path clean.

Use a dry, soft, lint-free cloth or a Cotton swab to wipe dirt and stains from the Magnetic and Optical Sensors, Rollers and Belts. If necessary, blow the inside of the Unit clean with a compressed air jet to remove clinging foreign objects. Pay attention not to scratch the sensors lenses. Clean belts and rollers by water-damped piece of Micro-fiber cloth.

How to clean the sensors:

1. Make sure that power is off.
2. Open the upper cover flap.
3. Clean each sensor and its path.



Wipe clean by a lint-free piece of cloth:

- a – Input Sensor
- b – Validation Sensor
- c – Side Sensor
- d – Escrow Sensor, prism
- e – Prism

Clean by pressurized air:

- f – Recycler flap Sensor
- g – Stacker door flap Sensor

Remove the Cash-box and blow pressurized Air to the box hanging side of the validator and to the Cash box prisms:

- h – Stack input Sensor
- i – Cash box Sensor
- j – Pusher mechanism: home position Sensors

Clean by water-damped piece of Micro-fiber cloth:
All Rollers and Belts

12. Disposal of the product



WARNING! DISPOSE OF ACCORDING TO THE GOVERNING LAW IN YOUR COUNTRY!

This equipment may not be treated as household waste. Instead, it must be handed over to the applicable collection point for the recycling of electric and electronic equipment.

By ensuring that this product is disposed of correctly, you will help to prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product.

For more detailed information about recycling of this product, please contact the Dealer where you purchased this product.

13. Terms of Guarantee

The manufacturer will fix malfunctions arising from production faults in this machine or parts of it within 12 months from the date of sale.

All communications referring to guarantee repairs or replacements must be accompanied by the product serial number and the copy of the sale invoice.

To obtain your guarantee repair, please send the part to the Dealer where you purchased the machine, together with the following documents:

- copy of the sale invoice
- delivery note stating "returned for guarantee repair"
- detailed report of the problem found and the circumstances in which it occurs.

Before sending the product, please get in touch with your Dealer or with Alberici S.p.a. (+39 051 944300); very malfunctions can be fixed via a simple phone call, saving you costs and time.

Alberici S.p.a. will verify that warranty is applicable, i.e. that problem is not caused by:

- transport damages
- damages from incorrect installation or wrong configuration
- installation in premises or areas not complying with the prescribed safety requirements
- intentional or unwilling tampering
- wrong or careless use or maintenance
- non-compliance with precautions prescribed (see Chapter 4. Caution)
- natural disasters, vandalisms, intentional or unintentional damage

Guarantee is considered automatically expired if outer and inner labels are missing. Transport costs of repaired products are at the Customer's charge.

14. Customer Service

Alberici S.p.a. will be pleased to offer all the necessary information on use, ordinary maintenance and technical service. Please call (+39) 051 944300 and specify if your request concerns information on use or technical support.



DICHIARAZIONE DI CONFORMITÀ



DIRETTIVA 2014 / 35 / UE - DIRETTIVA 2014 / 30 / UE

La ditta Alberici S.p.A., avente sede in via Ca' Bianca, 421, 40024 Castel San Pietro Terme (BO) – Italia,

DICHIARA

Che il sistema classificato nella famiglia di prodotto **apparecchio elettrico d'uso domestico e similare** –, **Centrale polifunzionale self-service di cambio monete e/o banconote**, identificato univocamente da:

Modello	Configurazione	Tipo	Matricola/Seriale
BIG	<input type="checkbox"/> S11-AH4 (o S11)-1V <input type="checkbox"/> S11-AH4 (o S11)-1VR2	<input type="checkbox"/> Da pavimento	-----
CHANGE	<input type="checkbox"/> S11-AH4 (o S11)-1NV <input type="checkbox"/> S11-AH4 (o S11)-1VP	<input type="checkbox"/> Da parete	
	<input type="checkbox"/> S11-AH4 (o S11)-1VR <input type="checkbox"/> S11-AH4 (o S11)-1VRP		

Essendo realizzato conformemente al modello prototipo campione denominato BIG CHANGE in configurazione S11-AH4-1VRP avente matricola n°0000 (prototipo), finito di testare positivamente ai fini EMC e LVD (rapporto 6244BGS11-AH4-1VRP.doc) il 30/07/2012, dalla STP S.r.l., con sede legale in via Cervese, 373, 47521 Cesena (FC), Italia e sede operativa in via San Donnino, 4, 40127 Bologna (BO), Italia, risulta essere conforme a quanto previsto dalle seguenti direttive comunitarie:

- a) le norme armonizzate (per i punti applicabili):
- CEI EN 55014-1 (CEI 110-1);
 - CEI EN 55014-2 (CEI 210-47);
 - CEI EN 55022 (CEI 110-5);
 - CEI EN 55024 (CEI 210-49);
 - CEI EN 60065 (CEI 92-1);
 - CEI EN 60335-1: 2013-05 (CEI 61-150);
 - CEI EN 60335-2-82: 2005-08 (CEI 61-226);
 - CEI EN 60950-1 (CEI 74-2);
 - CEI EN 61000-3-2 (CEI 110-31);
 - CEI EN 61000-3-3 (CEI 110-28);
 - CEI EN 61000-4-2 (CEI 210-34);
 - CEI EN 61000-4-3 (CEI 210-39);
 - CEI EN 61000-4-4 (CEI 210-35);
 - CEI EN 61000-4-5 (CEI 110-30);
 - CEI EN 61000-4-11 (CEI 110-29);
 - CEI EN 61000-6-1 (CEI 210-64);
 - CEI EN 62233 (CEI 61-251).
- b) In conformità ai requisiti essenziali di sicurezza della Direttiva Bassa Tensione:
- 2014/35/UE del 26 Febbraio 2014;
 - L. 791 del 18 Ottobre 1977 e s.m.
- c) in conformità ai requisiti essenziali di sicurezza della Direttiva Compatibilità Elettromagnetica:
- 2014/30/UE del 26 Febbraio 2014;
 - D.Lgs. 194 del 06 Novembre 2007.

che conferiscono la presunzione di conformità alla Direttiva 2014/30/UE

Castel San Pietro Terme (BO), Italia li, ___ / ___ / _____

Il Presidente

Alberici S.P.A.

Progettazione e produzione sistemi di pagamento, accessori per videogames e vending machines
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E-mail: info@alberici.net - Url: <http://www.alberici.net>



NOTICE

Alberici reserves the right to change at any time in any part in the present manual, as well as in the product and in its functions, without previous notice, to the aim of constantly improve the quality of the products.



Progettazione e produzione di sistemi di pagamento, accessori per videogames e macchine vending
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