HIRA 2 Midi, Maxi
5" display

Operator's Manual

CE

CONTENTS

STORICO REVISIONI			
Revisione n°	Data	Modifica	Note
Creazione 1.00	30.12.14	Creazione	FW CMS v. 1.14 (scheda CMS Full)
Rev. 1.01	18.02.15	Funzioni abilitazione/disabilitazione e erogazione via GSM.	FW CMS v. 1.16
Rev. 1.02	10.03.15	Aumentato timeout visualizzazione valore svuotato. Inserito 1' Timeout di uscita in menu svuotamento	FW CMS v. 1.18
Rev. 1.03	27.06.15	Abbassato timeout cancellazione automatica credito residuo	FW CMS v. 1.19
Rev. 1.04	29.04.16	Inserito lettore ACS	FW CMS v. 1.23
Rev. 2.00	07.03.19	Uniformato manuale con edizione italiana	FW CMS v. 1.26
Rev. 2.10	04.06.20	Integrazione VPOS Touch Nayax (scheda CMS ARM)	FW CMS v. 1.38 (scheda ARM)
Rev. 2.20	07.07.20	Modelli con display 5" (scheda CMG) e VPOS	FW CMG v. 1.06 Nayax – v. 1.07 Valina
Rev. 2.21	11.12.20	Time-out su POS e tabella pagamenti POS indipendente	FW CMG v. 1.11 Nayax – v. 1.11 Valina
Rev. 2.22	30.08.21	Reset of Remaining credit / Hopper adjustment by 5c steps	FW CMG v. 1.11 Nayax / Payter
Rev. 2.23	16.12. 22	Modulo di alimentazione integrato MP1	FW CMG v. 1.15 Nayax – v. 1.16 Payter
Rev. 2.24	03.07.23	Compatibilità con Nayax v. 2.4.0.4 e retrocompatibilità con v. 2.0.1.9. Eliminato il doppio passaggio con carta di credito.	FW CMG v. 1.22EU Nayax ITA-ENG-DE FW CMG v. 1.22EU Nayax ITA-FRA-DE FW CMG v. 1.22CHF Nayax ITA-FRA-DE

Dear Customer,

we would like to thank you and congratulate for your choice. We trust that you will appreciate the quality and performance of the HIRA TWO automatic Change Machine.
This machine operates by cctalk protocol, the well-established serial communication mode that provides security and precision.

> *Please read carefully this handbook, to obtain the most from your machine.*

1.   Package content

The package contains:

1. the Alberici HIRA 2 Midi / Hira 2 Maxi Change machine
2. 1 pair of keys
3. the power cable (see inside of money box)
4. the instruction manual (this manual)

This product has been packed with the utmost care. In the case that you receive it damaged or incomplete, please notify immediately your findings to the Carrier.

2.   Components description

POS.	COD.	DESCRIZIONE
A	AE-0806 *or* A-PW0002	Power supply box RD-125 *or* MP1 integrated Power Module, with Hub pcb
B	SH-1D41-0010	ChangeOne CMG board with 5" blue display
C	AA-0177	Hub pcb for Peripheral units
D	K-02C-020040 (Maxi) or K-02C-020070 (midi)	2 x HopperOne S11 ccTalk STD (includes relevant capacity extension E)
E	AA-0315 AA-0333	SECTOR 300 capacity extension (Midi) SECTOR 100 capacity extension (Maxi)
F	LB-LU01-0004 *or else:* LB-MU02-0004	BillyOne ccTalk note validator *or else:* OryOne ccTalk note validator (with stacker)
G	PL-MK21-ET6H	Halo quick-fix square 21 RGB pushbutton
H	AM-1509	Flat key lock L=21mm keyed different
I	AM-1305, *else* HR1-011A-P00	Plastic "A" coinbox, *or else* Metal coin box
L	GE-66SU	AL66S coin acceptor
M	IM-N000-0L10	PP coin entry slot
N	CH-CC01	ACS card / key reader
O	C-140102	VPOS Touch Nayax 3G EU-Marshall (option)
P	A-CM0059 or A-CM0068 A-CM0066	Nayax VPOS Interface pcb, or Valina POS Interface pcb, or Payter POS Interface pcb
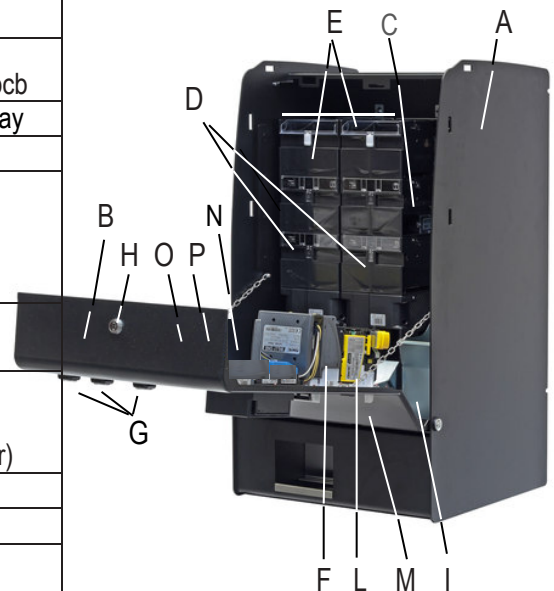
3. Product description

3.1 General data

Technical specs:	HIRA 2
Size:	See page 6
Weight:	Midi: 39 Kg (59 Kg with floor-stand) – Maxi:35 Kg (55 with floor-stand)
Voltage: Nominal	230 Vac - 50 Hz
power:	340 W max
Operation temperature:	0°C + 50°C
Installation:	Desktop or on floor-stand or wall-mount, indoor
Coin capacity:	Midi: 5600 - Maxi: 7200
Components:	
Power supply unit	Power switching 340W
Control board Note	CHANGEONE CMG 120K with 5" GRAPHIC DISPLAY
validator Pay-out	BILLYONE, *or else:* ORYONE (with stacker)
Hopper	2 x HopperOne S11, or 2 x AH4, or 1 x S11 + 1 x AH4
Coin acceptor	AL66S cctalk
POS Terminal (optional)	VPOS Touch Nayax 3G EU-Marshall, or preset for Worldline Valina
RFID reader (optional)	ACS card/key reader
Remote audit (optional)	Hermes Alberici GSM-GPRS or GPS/GSM/GPRS (*)

Notice: Euro is the preset currency. If you require a different currency, please request your currency before placing your order.
(*) The system requires that the B-to-B Alberici SIM card is inserted into the Hermes module SIM slot, and that a subscription is entered into the ARGO Portal, in order to control the machine via the Internet.

3.2 Available functions
- Change of notes and coins into 1 or 2 denomination coins/tokens, at User's choice
- Change of notes and coins into 1 denomination tokens, with cash change returned
- Purchase of tokens by cash or POS transaction
- Control of accounts via display (by on-board keys)
- Programmable via menu (by on-board keys)
- Change of display language by external "LANGUAGE/SEL" pushbutton, at User's choice.

4. Warning

- Comply with the instructions in this manual
- Switch power off before any maintenance operation
- Use only within the recommended temperature/humidity range
- Do not expose the machine (and especially the mote acceptor front plate) to direct sun light or to incandescent light (> 3000 Lux)

- When in presence of car exhaust gas or smoke, clean and check the components (the note acceptor in particular) regularly and frequently.
- Do not favour contact with dusts or chemical moisture or sprays, water or other liquids
- Install indoor
- Wipe clean by a dry piece of cloth (or slightly wet with alcohol)
- Do not use thinners or organic solvents
- The note acceptor could reject (or get jammed by) stained notes, or worn out, wet, wrinkled, torn, dog-eared, oil-smeared, with sticking tape or similarly affected.
- Clean monthly the sensors of the note acceptor. Remove paper dust that has accumulated on the drive wheels, by a clean piece of cloth or a cotton swab. Do not use alcohol nor solvents or scrapers.

5. Installation

⚠️ **PAY ATTENTION: IT IS ESSENTIAL TO FASTEN THE MACHINE TO A SOLID WALL BY USING RELIABLE EXPANSION BOLTS.**
IT IS RECOMMENDED THAT YOU MAKE USE OF THE DEDICATED WALL-MOUNT SLAB (ref. HRM-AM15-V06 for HIRA 2 Midi, HRS-015A-V06 for HIRA 2 Maxi) .
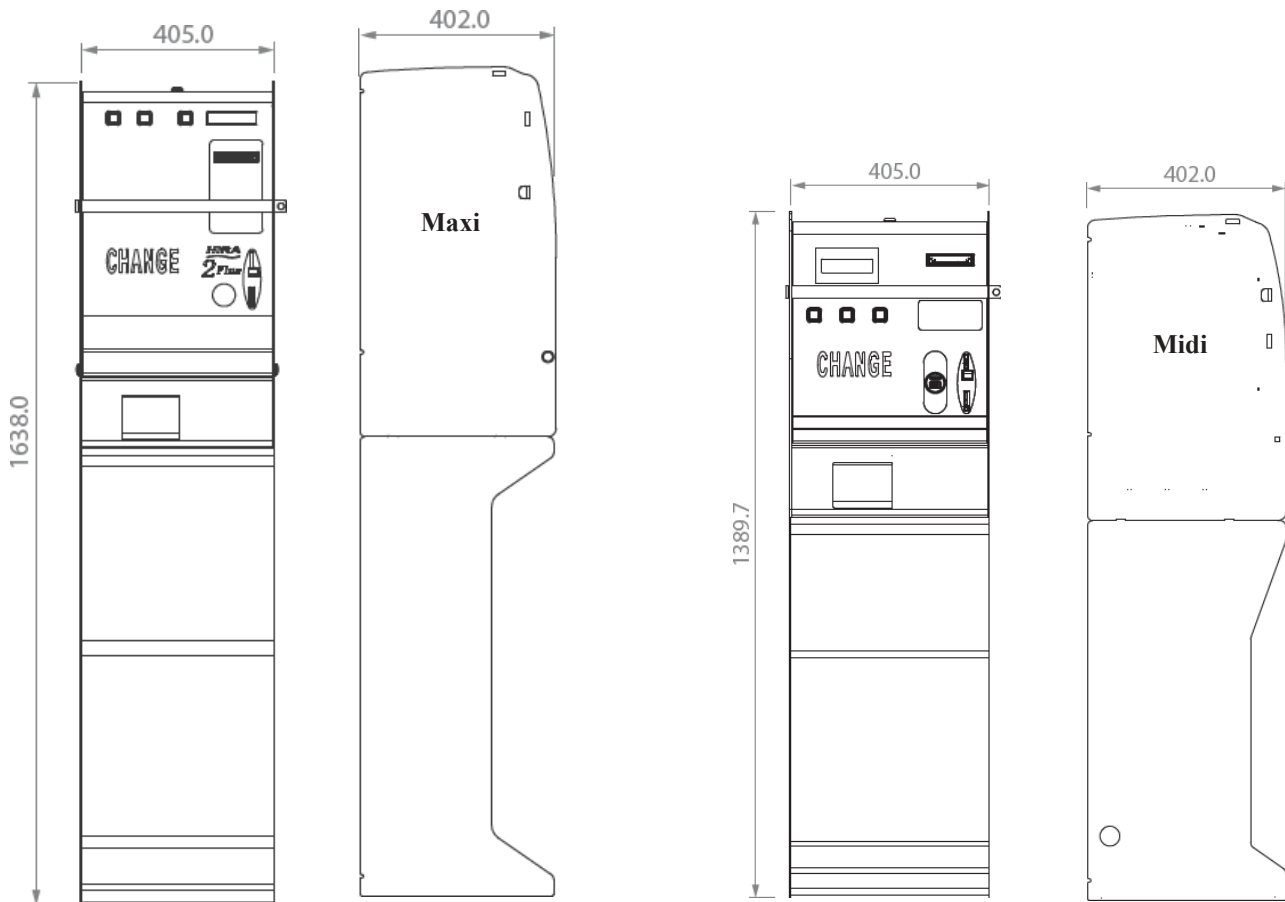
All measures in mm

Put the Change Machine in place and fasten it to the wall by expansion bolts through the "x" holes in the rear side of the cabinet. Keep the on-off switch accessible. In addition, the machine can be secured to the floor: the large holes at the foot allow securing the machine by a binding chain.

The fastening slab allows to easily secure the machine to the wall. Once fixed the slab to the wall, the machine can be either fastened to it by screws ("Z" holes), or just hung upon the slab's hooks, so as to remove it at ease if necessary to temporarily store it in a safe room.

WALL-MOUNT SLABS:

HRS-015A-V06 for HIRA 2 Maxi
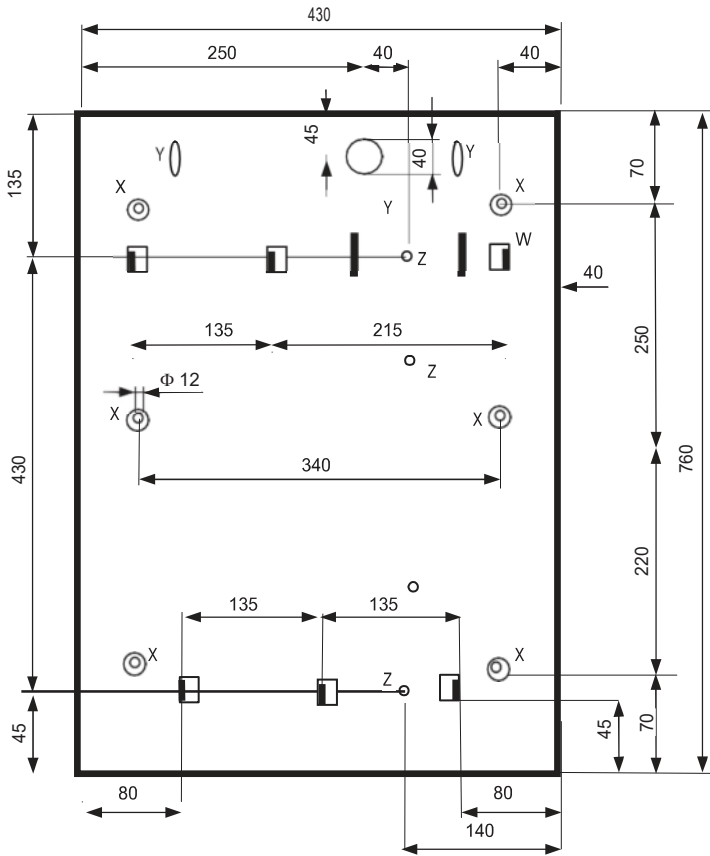
Prepare the tunnel for the power cable in the wall (corresponding to "Y" Hole in the slab).

Fasten the slab to the wall by sturdy expansion bolts, through the 6 "X" (⌀ 12 mm) holes.

Connect the cable to its socket behind the machine, and hang the latter on the 4 "W" supporting hooks.

Fix the machine to the slab by M8 screws through the three "Z" threaded holes, if you do not plan to often remove and re−hang the machine up to its "y" hooks.

HRM-AM15-V06 for HIRA 2 Midi

Prepare the tunnel for the power cable in the wall (corresponding to "Y" Hole in the slab).
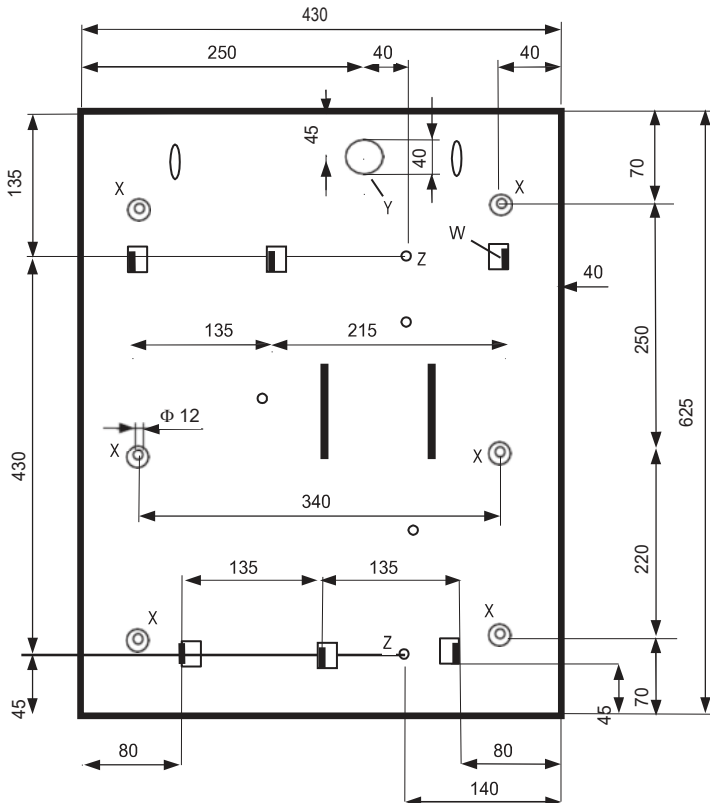
Fasten the slab to the wall by sturdy expansion bolts, through the 6 "X" (⌀ 12 mm) holes.

Connect the cable to its socket behind the machine, and hang the latter on the 4 "W" supporting hooks.

Fix the machine to the slab by M8 screws through the two "Z" threaded holes, if you do not plan to often remove and re−hang the machine up to its "y" hooks.

PREPARATION FOR USE:

PAY ATTENTION: FILL THE HOPPERS ONLY WHEN THE MACHINE IS OFF.

Open the door and locate extensions capacity on top of the hopper.
Unlock the latch A (white slide) of the cover and slide
the latter fully out towards the outside, until is positioned as
a pilot chute: pour into the hopper the coins or tokens to be
dispensed as change.

Unlock again the latch A and slide the cover back
to "closed" position.
Close the tiltable front flap of the machine.
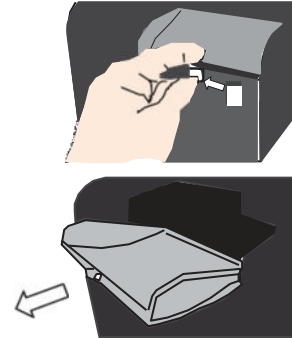
The coin denomination preset for all the single-coin hoppers is € 2. When the machine is equipped with banknote recycler, the two default denominations for the recyclable banknotes are: € 50 and € 20. It is possible to modify such default configuration through the setting menu: see section 7.3.6.2.
Plug the power cable in, and turn the main switch on. The ON/OFF switch is located by the side of the mains cable socket, on the back side of the machine.
The system shall start automatically self-check and the self-setting. At the end, a message will inform that the machine is ready for operation, showing what coin(s) (tokens) value(s) will be paid in exchange for the notes and the coins introduced.

CHANGE

DISPENSING

2,00€
1,00€
0,50€
0,10€

INSERT
COINS / BANKNOTES
or
PRESS SEL FOR CARD
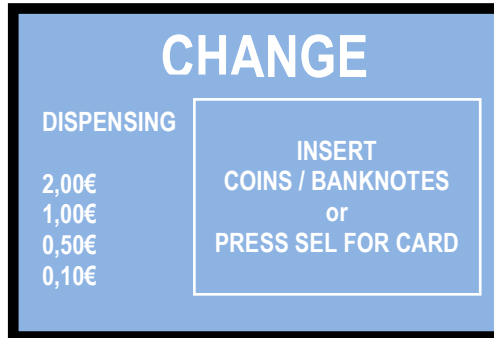
The change machine will activate different procedures depending on whether it has been set up to operate by the AUTOMATIC MODE (factory setting) or in MANUAL MODE.

When set to standard Automatic Mode, the machine will pay-out a balanced combination of the denominations (pieces) contained in its hoppers, against paid-in cash. Else, the Operator can enable and program the Pay-out Table: in which, for each of 6 programmable pay-in levels, he will be able to program 1 combination of the amounts paid out by each hopper, according to his convenience (see Section 7.3.6.3 A).
When set to standard Manual Mode, the User will be able to choose the desired denomination. Else, the Operator can enable and program the Pay-out Table: in which, for each of 9 programmable pay-in levels, he will be able to program up to 3 pay-out combinations of the amounts paid out by each hopper, according to his convenience: the User will be able to choose among such 3 combinations (see Section 7.3.6.3 B).
To allow the User to buy Tokens by POS card according to the Operator's convenience, the POS Pay-out Table must be programmed - in which, for each of 10 programmable pay-in levels, 3 pay-out combinations of the amounts paid out by each hopper can be set: the User will so be able to choose among such 3 combinations (see Section 7.3.6.3 C). If the Table is disabled, the machine will pay out the most even combination of denominations from the hoppers. In the Automatic Mode, it is mandatory to set the POS Pay-out Table. In the Manual Mode, it is optional.

AUTOMATIC MODE	*MANUAL 2P MODE*	*POS MODE*
For each inserted amount out of **6 programmable levels** (to be chosen among 0,10 - 0,20 - 0,50 – 1 - 2 - 5 - 10 – 20 - 50 - 100 €), the User will receive the **relevant combination of Tokens/Coins** preset by the Operator.	For each inserted amount out of **9 programmable levels** (to be chosen among. 0,10 - 0,20 - 0,50 – 1 - 2 - 5 - 10 – 20 - 50 - 100 €), the User will be able to choose among **3 combinations of Tokens/Coins** preset by the Operator.	For each inserted amount out of **10 programmable levels** (to be chosen among. 0,10 - 0,20 - 0,50 – 1 - 2 - 5 - 10 – 20 - 50 - 100 €), the User will be able to choose among **3 combinations of Tokens** preset by the Operator.
If the note recycler is present, the User will receive the preset combination of Tokens/Coins and Banknotes.	If the note recycler is present, the User will be able to choose among 3 preset combinations of Tokens/Coins and Banknotes.	

6. Operation

Three buttons are available: "SEL-", "LANGUAGE/SEL+", and "OK" allow the User to make his choice when the unit is set to operate in MANUAL MODE. These buttons are lit up in blue colour when the unit is in stand-by.
The "LANGUAGE/SEL+" button lights up green and allows the User to choose his preferred interaction language.

6.1 Automatic mode – Cash purchase (see section 7.3.6.3 A)

When a note or coin is inserted, the display shows the credited amount, and the control board automatically starts to pay-out a balanced combination of the denominations (pieces) contained in its hoppers. If the Pay-out Table has been enabled, the hoppers shall provide the combination that the Operator has pre-programmed for the amount inserted.
At the end of the payout cycle, the display will show both the inserted amount and the paid-out total.

6.2 Manual 2P mode – Cash purchase (see section 7.3.6.3 B)

Pay-out Table not enabled: when a note or coin is inserted (or when the smaller value available in the hoppers is reached), the "SEL" and "OK" buttons will light up in green colour. Continue to introduce cash money up to the desired amount, then press "SEL" to choose the denomination that you want to receive, and press "OK".
Pay-out Table enabled: when money is inserted, the display will show the first one among the various pre-set combinations proposed, out of the 1-to-3 pre-programmed by the Operator. Press any "SEL" button to get to the next page and check the second combination, then press the button again and so on, to find the combination that best suits your wish. Once found it, press the "OK" button to collect the changed amount or the purchased tokens.
At the end of the payout cycle, the display will show both the inserted amount and the total amount paid out.

6.3 POS mode – Credit / Debit Card purchase (see section 7.3.6.3 C)

POS operation is allowed uniquely if the machine delivers Tokens only. Using the change machine to cash from credit cards or debit cards is *ILLEGAL*, since the machine is not a licensed ATM.
The machine display prompts the User to press the "SEL" button if purchase by credit/debit card is desired:

- Touch the "SEL+" or the "SEL-" button as many times as necessary to obtain the desired amount:
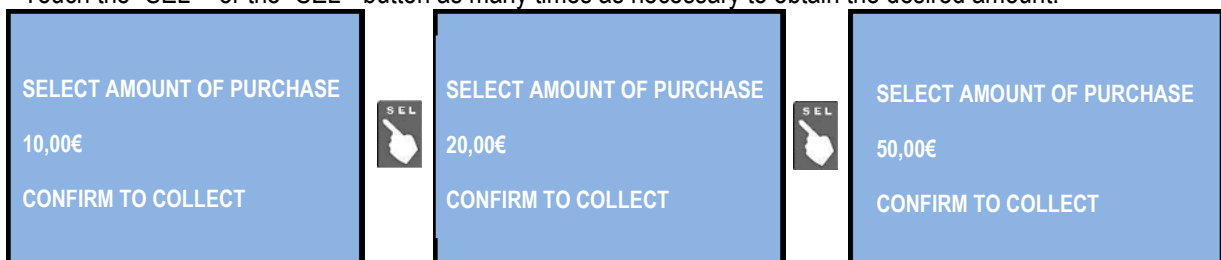
- Once chosen the price, press the "OK" button.
  The display will prompt to tap the Card on the POS Terminal:

LEAN CARD AGAINST
POS TERMINAL

- tap the Card on the POS terminal: the machine shall
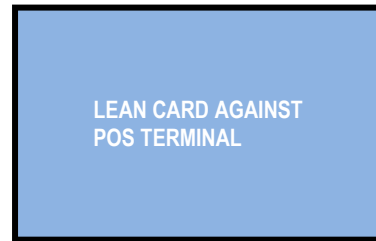 dispense the quantity and variety of tokens corresponding to
  the combination that the Operator has pre-programmed for
  the amount inserted (see section 7.3.6.3 C).
        At the same time, the bank network will deduct
        the equivalent amount from your Card account.

CREDIT
50,00€
PAID
50,00€

☞ *If, after starting the POS procedure by pressing the SEL key, the User does not want to continue, she/he should press the crossed red symbol on the POS terminal. This action returns the system to stand-by mode. Else, if no button is pressed within 30 seconds from POS activation, the machine itself will stop the transaction and return to stand-by mode.*

WARNING: if there are not enough pieces in the hopper to fulfil the whole change request, the remaining credit shall be retained in memory. Switch off the machine, fill the hoppers, and switch on again to pay the remaining credit out. An alternative option is to set the Remaining Credit Menu (see section 7.3.5) to cancel the remaining credit when switching the machine off and on again (recording it automatically in the Accounts menu).

7. System configuration

7.1 Default configuration

The HIRA 2 is preset by default as follows (unless requested for different setup):

Control Board Parametres	Pay-out mode = AUTOMATIC
Hopper S11 Parameters	Hoppers nr. 1, 2 (*) = € 2.00
Hopper AH4 discriminator (upon request)	Preset by default to 0,50 - 1,00 - 2,00 €
ORYONE / VEGA-RC Validator take	€ 5.00 - …. - € 100.00
VEGA-RC Recycler takes	€ 20 – 10 = ENABLED
AL66 S coin acceptor takes	€ 0.05 - € 0.10 - € 0.20 = DISABLED
	€ 0.50 - € 1.00 - € 2.00 = ENABLED

(*) It is possible to decide which one among the 2 hoppers must work as primary (ex. when the machine is used for dispensing tokens or when the pay-out table is not in use).
Each hopper has its own serial address; such serial address is defined by the position of the dip-switches located in the hopper sliding base. The dip-switch rows of the hoppers
are set respectively to the following addresses:

Dip-switches in HP1: address 3 (all DS to OFF)
Dip-switches in HP2: address 4 (no. 1=ON, nos. 2= 3=OFF)

Restore default configuration

If any unwanted variation is made, it will be possible to restore the default configuration as follows:
enter menu, scroll by UP and DOWN keys and choose RESTORE DEFAULT CONFIGURATION, then press OK; the message DEFAULT CONFIG. RESTORED will be displayed and the unit shall return to its original setting.

NOTICE: the *RESTORE DEFAULT CONFIGURATION* **command resets the default PIN code (0000) .**
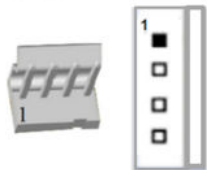
7.2 System connections

7.2.1 MODELS WITH MP1 POWER MODULE AND INTEGRATED HUB PCB
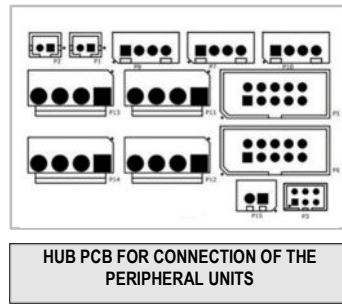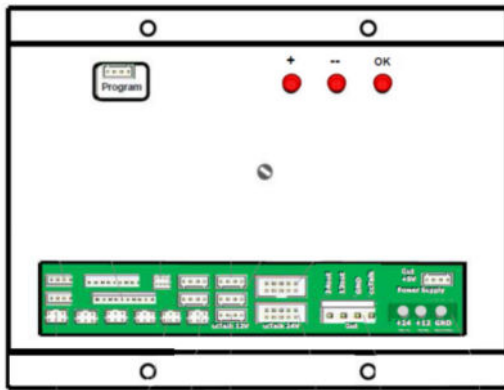
HUB PCB FOR CONNECTION OF THE PERIPHERAL UNITS

SOCKETS IN CHANGEONE CMG PCB

PWR IN/CCT = from the Hub pcb
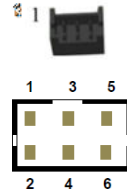(in the MP1 Power Module):
+24V / +12V / GND / CCTALK

+24 V	1	Pin 1 = green wire
+12 V	2	Pin 2 = yellow wire
GND	3	Pin 3 = black wire
DATA	4	Pin 4 = white wire

P1 = OK PUSHBUTTON

P2 = SEL- PUSHBUTTON

P3 = SEL+/LANGUAGE PUSHBUTTON

Micro NO	1	Pin 1 = grey wire
LED R (Red)	2	Pin 2 = red wire
+12 V	3	Pin 3 = yellow wire
LED B (Blue)	4	Pin 4 = blue wire
GND	5	Pin 5 = black wire
LED G (Green)	6	Pin 6 = green wire

TTL1 = to the POS Terminal

PROG = socket for the optional K-P3N-000006
external programming keypad

5 pin (not connected)

SOCKETS IN HUB PCB (ON INTEGRATED MP1 POWER MODULE)

KEEPER
top sign

Coin tray
LED strip

ACS RFID
READER

COIN
ACCEPTOR

GSM-GPRS
HERMES
MODULE

HOPPERS

BANKNOTE
READER

PWR IN/CCT socket on
ChangeOne CMG pcb

From MP1
Power Module

Anti-Tamper switch
(only with Hermes Module)
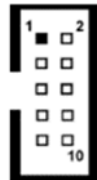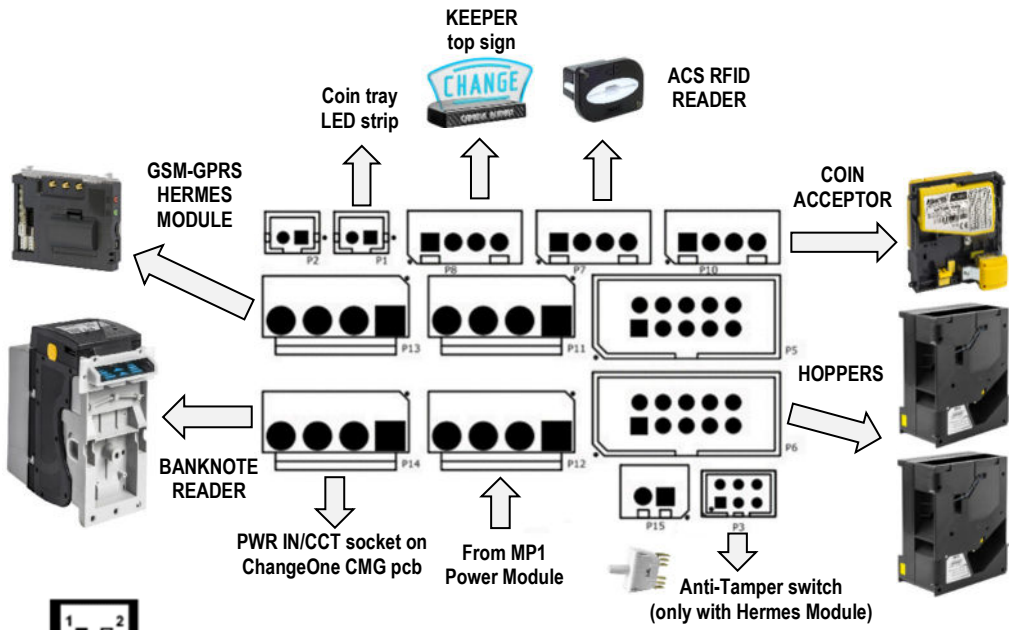
DATA	1	2	VOID
VOID	3	4	GND
VOID	5	6	VOID
+24V	7	8	GND
VOID	9	10	+24V

DATA	1
GND	2
NC	3
+12/24 V	4

+24V	1
+12V	2
GND	3
DATA	4

7.2.2 OLDER MODELS WITH SEPARATE POWER BOX AND HUB PCB

Optional K-P3N-000006 programming keypad: provides external operation of **+, –** , and **OK** keys

TTL 1 = J5

TTL 2
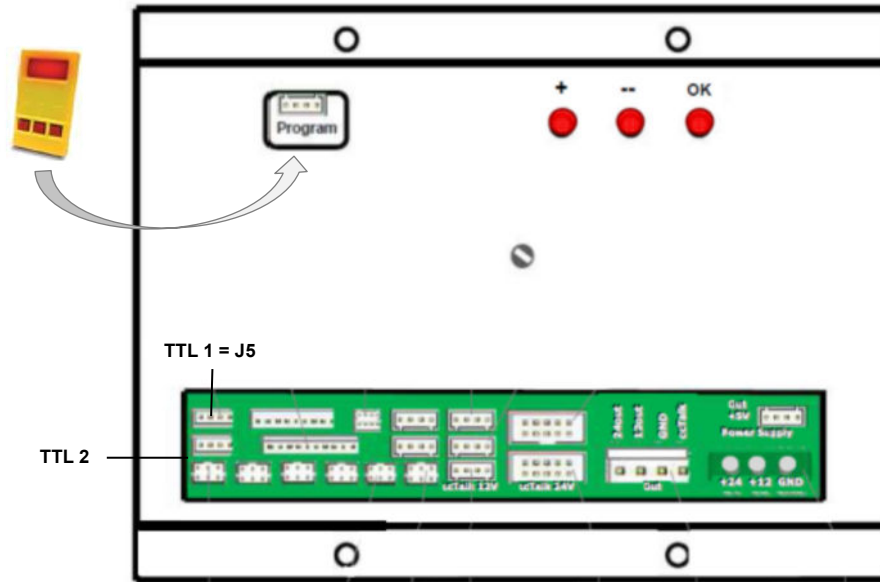
Connections Power box - HUB-pcb / HUB pcb - CMG pcb:

To the PWR OUT socket of the CMG pcb, from the HUB pcb

AL66 COIN ACCEPTOR
(from Hub P5 socket)

BANKNOTE VALIDATOR
(from Hub P9 socket)

2 x HOPPERONE S11
(from Hub P1 / P2 sockets)

FROM POWER BOX
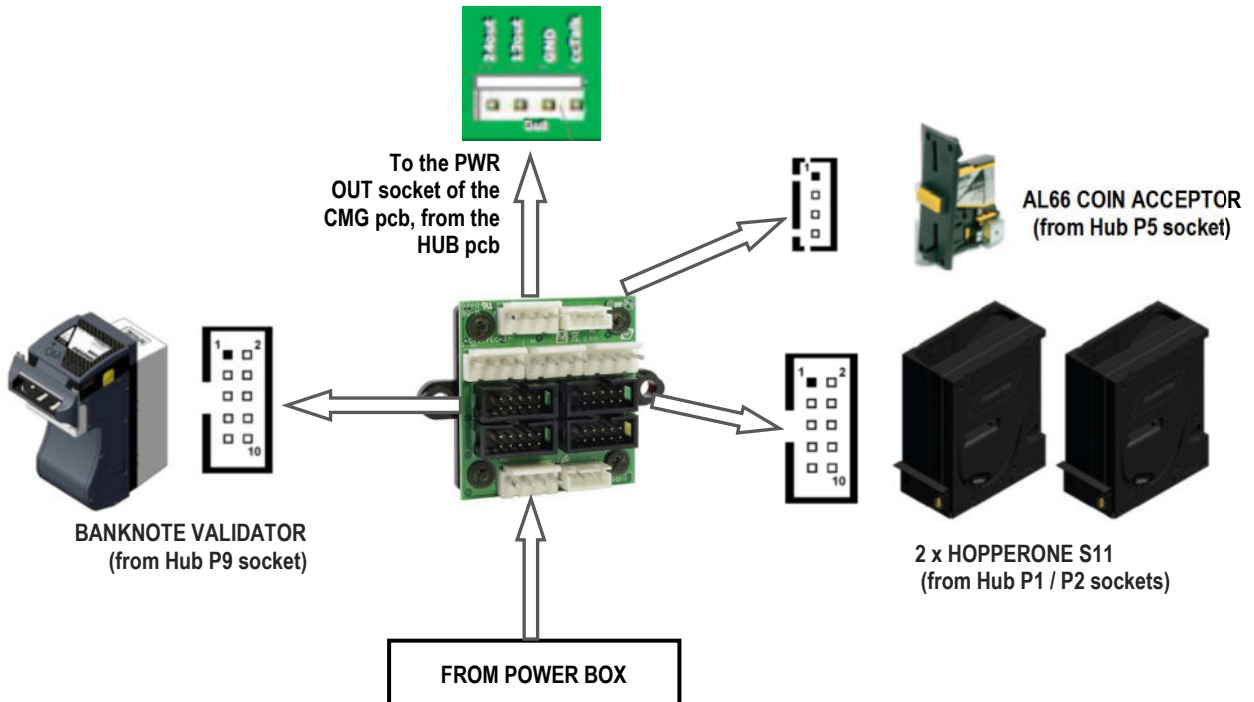
Connections on the CMG pcb:

RGB1
RGB2
RGB3

RGB1 = CONFIRM Button
RGB2 = SEL - Button
RGB3 = SEL + / LANGUAGE Button

J5 (Ser TTL 1) POS Terminal

7.2.3 INSTALLING THE POS TERMINAL

Depending on the type of POS that the machine has been requested, please find the relevant interface cable among the accessories (inside the cashbox):
IF for VPOS Touch Nayax
IF for WORLDLINE VALINA
IF for PAYTER

Connect the 4p end of the POS Interface cable to the TTL1 (J5) socket of the main pcb.

NAYAX 3G — Connect the 40p end of the POS Interface cable and the aerial as shown

NAYAX ONYX — Connect the 40p end of the POS Interface cable and the aerial as shown
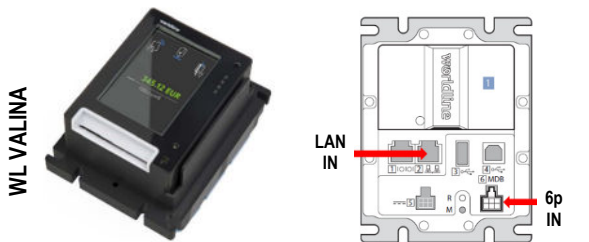
WL VALINA — Connect the black 6p (MDB) end and the Ethernet connector (LAN) of the POS Interface cable as shown
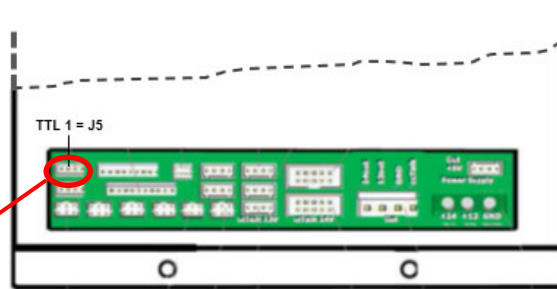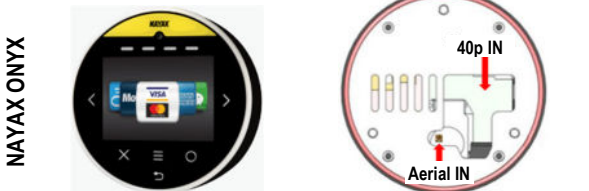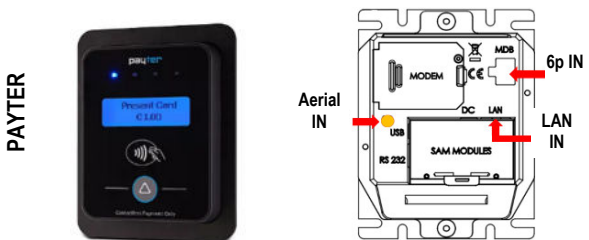
PAYTER — Connect the white 6p (MDB) end and the Ethernet connector (LAN) of the POS Interface cable as shown

Start the Service Menu (see section 7.3.1):
1. Go to the "Set up Peripheral units" option in the Menu (see section 7.3.6.1)
2. Go to "Enable POS?" (see section 7.3.6.1.C) and ENABLE it.
3. Go back to "Set up Peripheral units"
4. Go to "Set up Dispensing Mode" (see section 7.3.6.2)
5. Set to "AUTOMATIC MODE" or "MANUAL 2P MODE"
6. Enable/disable the monitoring of the Level Sensors (see section 7.3.6.2);
7. Set the values of tokens in the hoppers (see section 7.3.6.2);
8. If the AUTOMATIC mode has been chosen, enable and program the "Pay-out Table" (see sect. 7.3.6C);
   the "Pay-out Table" can be programmed also in MANUAL 2P Mode (recommended option) or left disabled;
9. The display will go back to "Set up Dispensing Mode";
10. Exit the Menu

7.3 Menu functions

7.3.1 SURF THE MENU:

Locate the in-line 3 button-keys on the p.c. board rear side. Get access to the menu by holding the three buttons pressed down at the same time for 5 seconds.

"OK" key	**confirm selection**
"+" / " –" key	**navigate menu UP and DOWN;** or, **modify figures and letters**
REG trimmer	**adjust display brightness**

Else, it is possible to temporarily connect the external keypad (K-P3N-000006) to the 'Program' socket in the rear side of the p.c. board.

7.3.2 MENU STRUCTURE

When switching to the menu, the following set of icons get diisplayed on the screen:
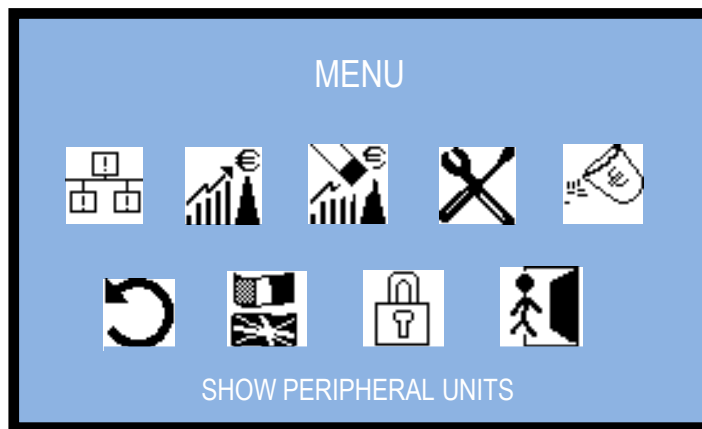
Use the "**+**" button-key to highlight the icon of the menu function you want to check: the description of the highlighted icon will appear at the bottom of the screen (e.g. SHOW STATUS OF PERIPHERAL UNITS for the first icon, EMPTYING DISPENSERS for the fifth, EXIT for the last one). Press the "OK" button-key to access the function.

7.3.3 SHOW PERIPHERAL UNITS

This sub-menu allows to check the state of the peripheral units in the system (connected or not, in error, empty):
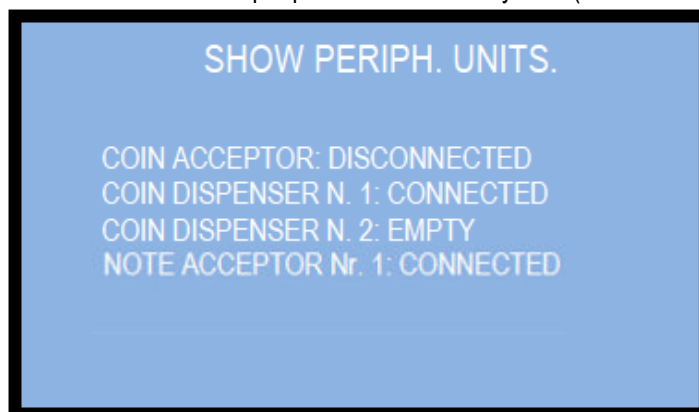
Press OK to return to the menu upper level.

7.3.4 SHOW ACCOUNTS

This menu allows to read the cashed totals and partials, the totals and partials paid out. Partials are made available for banknotes and for coins/tokens. E.g., considering Hopper 1 = 2 €, Hopper 2 = 1 €:

```
        SHOW ACCOUNTS
TOTALS IN:                           50,00 €
TOTALS OUT:                          50,00 €
BANKNOTES IN:                        45,00 €
BANKNOTES OUT (*):                   00,00 €
COINS IN:                             5,00 €
COINS OUT HP1 :                      20,00 €
COINS OUT HP2 :                      10,00 €
CASHLESS IN:                          0,00 €
LATEST PARTIAL IN:                    0,00 €
LATEST PARTIAL OUT:                   0,00 €
REMAINING CREDIT PAID (**)            0,00 €
```

(*) Line available only if the unit is equipped with Banknote Recycler.

(**) Line available only if the RESET REMAINING CREDIT (check section 7.3.5) option has been enabled.

Press OK to return to the menu upper level.

7.3.5   RESET ACCOUNTS

By this function it is possible to completely reset the registered Accounts records (either totals or partials). To cancel the recorded totals it is necessary to enter the PIN code. It is also possible to choose how to deal with the Remaining credit amounts: maintain it or cancel it (and in which way).
The highlighted item appears on a white background: if you choose RESET PARTIALS, simply press OK to delete these data (the message PARTIAL ACCOUNTS RESET will briefly appear);

```
        RESET ACCOUNTS

RESET TOTALS

RESET PARTIALS (*)

HANDLING OF REMAINING CREDIT

USCITA
```

(*) Whenever the Partials data get cancelled, the previous value recorded in "Last Partials cancelled" gets replaced by the amount that has just been reset.

If TOTAL ACCOUNTS RESET is chosen instead, after pressing OK the system will ask you to enter the PIN.

```
        RESET ACCOUNTS

        ENTER PIN

        ▦ ▦ ▦ ▦
```

Press "OK" to highlight the first character, then press the "**-**" or the "**+**" keys until the desired figure appears, and confirm it by "OK". The cursor will move to the next position.
Repeat per each of the following 3 characters of the PIN.
Once entered the fourth character, the recorded Total Accounts data shall get automatically deleted.

```
RESET ACCOUNTS

   PARTIAL ACCOUNTS

    CANCELLED (*)
```
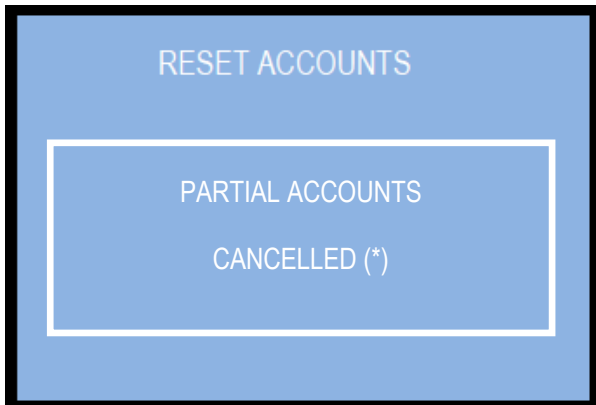
(*) When erasing the partial accounts, the existing record of the LAST PARTIALS cancelled (cf. 7.3.4 Show Accounts) gets replaced by the latest values deleted (sum of banknotes and coins, IN and OUT). In addition, all the recorded data regarding the Refill records are reset as well.

7.3.5.2 *Handling of the Remaining Credit*

Should the hoppers not contain enough pieces to satisfy the entire request of purchase, the remaining credit is shown on the display and stored in memory. Normally, if an operator is present, it will be sufficient for him to switch off the machine, fill the hoppers and switch on again: the residual credit will then be paid. It is possible to manage what to do with any remaining credit by setting this function. The display shows:

```
RESET ACCOUNTS

RESET THE REMAINING CREDIT:    ENABLE

   TURN          FIXED          RESET
 OFF/ON        TIME OUT       BY MENU

    x              x              x
```
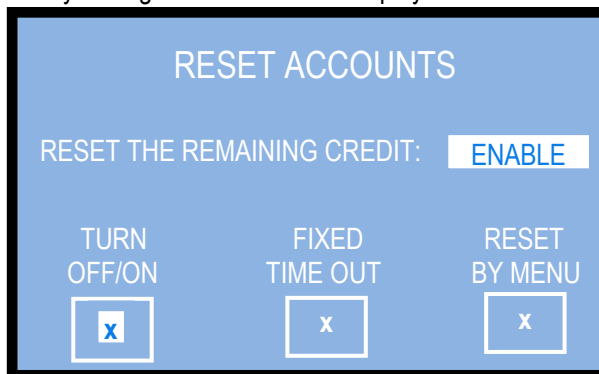
By enabling the Reset option, the remaining credit can be cancelled by choosing one of the following three options:

```
RESET ACCOUNTS

RESET THE REMAINING CREDIT:    ENABLE

   TURN          FIXED          RESET
 OFF/ON        TIME OUT       BY MENU

    v              x              x
```

i.   by turning the power off and on (choose the option TURN OFF/ ON)

```
RESET ACCOUNTS

RESET THE REMAINING CREDIT:    ENABLE

   TURN          FIXED          RESET
 OFF/ON        TIME OUT       BY MENU

    x              v              x
```
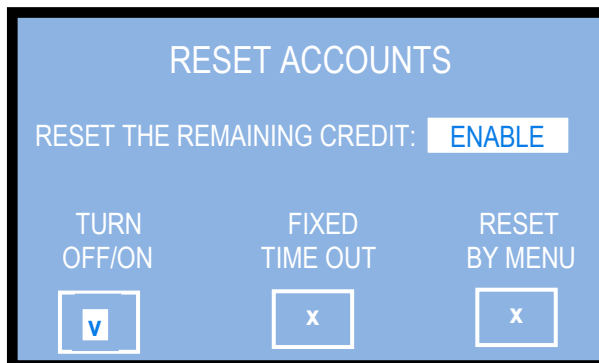
ii.   automatic reset, after 30 seconds have passed. If during these 30 seconds more money is inserted, it will be added to the remaining credit amount (choose the option FIXED TIME-OUT)

```
RESET ACCOUNTS
RESET THE REMAINING CRED    ENABLE


TURN            FIXED           RESET
OFF/ON        TIME OUT        BY MENU

  X               X               v
```
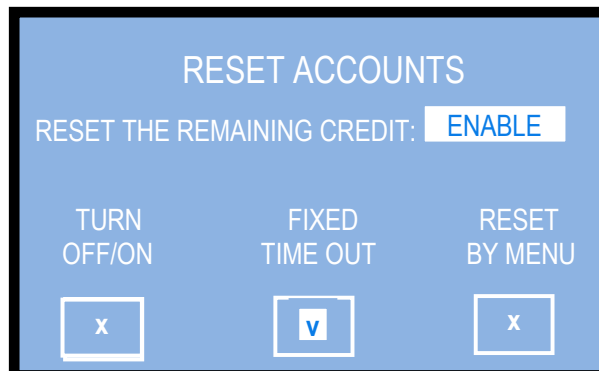
iii.   By accessing the RESET ACCOUNTS
Menu and confirming the line named RESET
OF THE REMAINING CREDIT
(choose the option RESET BY MENU) .
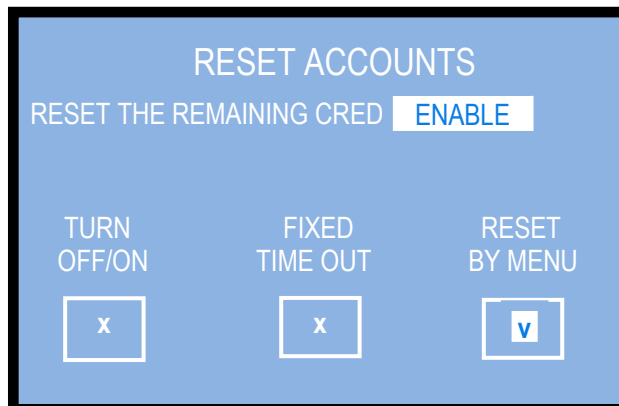
The line" RESET OF THE REMAINING CREDIT" will be made available and active only once the RESET BY MENU
option has been validated. It appears below the line "HANDLING OF THE REMANING CREDIT".


```
RESET ACCOUNTS

RESET TOTALS

RESET PARTIALS

HANDLING OF REMAINING CREDIT

RESET OF THE REMINING CREDIT

EXIT
```

When the option is enabled, to delete the remaining credit enter the RESET ACCOUNTS Menu, select the line "RESET
OF THE REMAINING CREDIT", and confirm your choice.
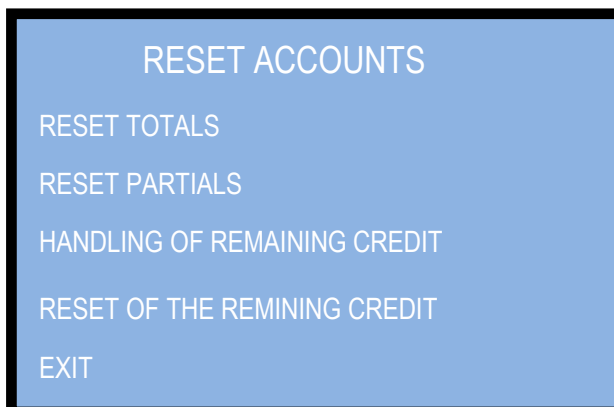Upon clearing the remaining credit amount by means of any of the three modes, the canceled amount gets recorded in the
SHOW ACCOUNTS Menu, under the item REMAINING CREDIT PAID.

7.3.6   SETUP THE MACHINE

The PERIPHERAL UNITS function allows to set which banknote and coin denominations must be accepted; if POS
device is included, its operation can be enabled or disabled by this function. If the telemetry module is part of the
machine, this sub-menu allows to configure the GSM-GPS fuction.
The DISPENSE MODE function allows to set the way the machine reacts to the introduction of money (i.e. change
money immediately and automatically, or wait for the User to confirm after dropping the money in); it also allows to set
the coin denominations (and possibly the note denominations) that can be delivered by the dispensers.
When the Pay-out Table is enabled, the Operator can set different change combinations for the amounts introduced by
the User; different operating options can be set, according to whether the DISPENSE MODE has been set to
AUTOMATIC mode or to MANUAL mode. The POS has its own dedicated table. If not set, POS will not operate.


```
SETUP

SET UP PERIPHERAL UNITS
SET UP DISPENSING MODE
SET UP PAY-OUT TABLE
SET UP POS PAY-OUT TABLE (*)
EXIT
```

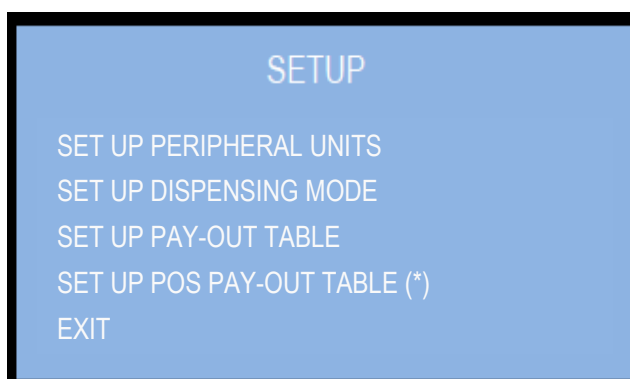(*) appears only
if POS has been
enabled (see
section *7.3.6.1.C*)

7.3.6.1 Set up Peripheral Units

This section allows to set which banknote and coin denominations must be accepted; if POS device is included, its operation can be enabled or disabled by this function.

7.3.6.1.A ENABLE NOTES (NOTE DENOMINATIONS TO BE ACCEPTED):
All the programmed note values (5-to-100 Euro) are enabled ('v' = enabled) by default. To modify such condition, or to change later modifications, press OK to get to the first denomination box (ex. 5 €), then press "**+**" or "**-**" to reverse its status. Press OK to confirm (the sign 'v' will turn to 'x', and viceversa) and to shift to the next option (ex. 10 €).

'v' = enabled
'x' = disabled

Press OK to confirm and return to the upper level. Then press "**+**" to shift to the following line (*ENABLE COINS*).

7.3.6.1.B ENABLE COINS

By this function, the Operator can decide which coin denominations the machine must accept and which ones it must reject and immediately return to the User.
The default coin denomination is 2 € for all 2 Hopper S11. If at least one Hopper AH4 (discriminator) is part of the machine, default denominations are 0,50 € – 1,00 € – 2,00 €.

'v' = enabled
'x' = disabled

Press OK to get access to the modification controls. Press OK again to get to the first denomination box (ex. 2,00 €), then press "**+**" or "**-**" to reverse its status. Press OK to confirm the setting (the sign 'v' will turn to 'x', and viceversa) and to shift to the next box (ex. 1,00 €).

SETUP PERIPH.

ENABLED COINS

2,00	1,00	0,50
v	v	v
0,20	0,10	0,05
v	v	v
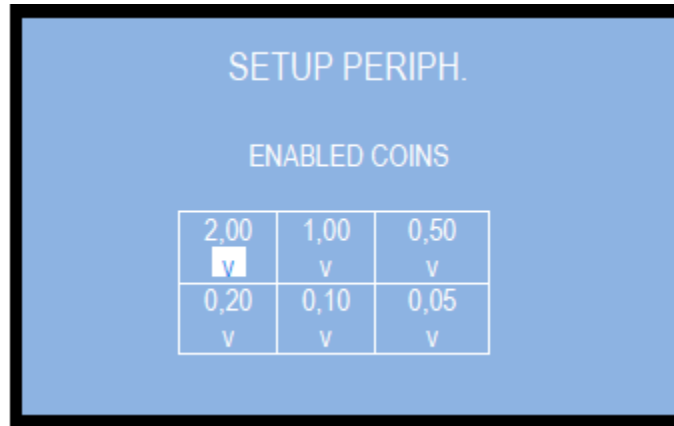
7.3.6.1.C ENABLE POS TERMINAL (IF PRESENT):

Highlight the POS ENABLE line and press OK to modify its status: the cursor will highlight the present status of the Terminal: make use of the "+" or of the "-" button-key to enable or disable it.

SETUP PERIPH.

ENABLED NOTES	5	10	20	50	100
NOTE VALID. Nr. 1:	v	v	v	v	X

COIN ACCEPTOR :   PRESS OK

POS ENABLE?   NO

EXIT

SETUP PERIPH.

ENABLED NOTES	5	10	20	50	100
NOTE VALID. Nr. 1:	v	v	v	v	X

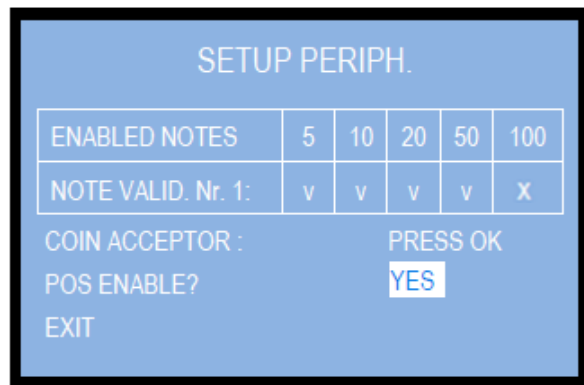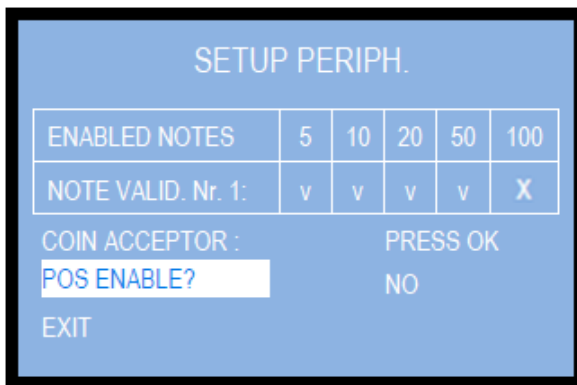COIN ACCEPTOR :   PRESS OK

POS ENABLE?   YES

EXIT

Press the OK button to return to the ENABLE POS function, and press "+" to shift to EXIT, then again press OK to return to the upper menu level.

7.3.6.2 Set up Dispensing Mode

The DISPENSING MODE function allows to set the way the machine reacts to the introduction of money (i.e. change money immediately and automatically, or wait for the User to confirm after dropping the money in); it also allows to set the coin denominations that can be individually delivered by the 2 hoppers.

SETUP

SET UP PERIPHERAL UNITS

SET UP DISPENSING MODE

SET UP PAY-OUT TABLE

SET UP POS PAY-OUT TABLE (*)

EXIT
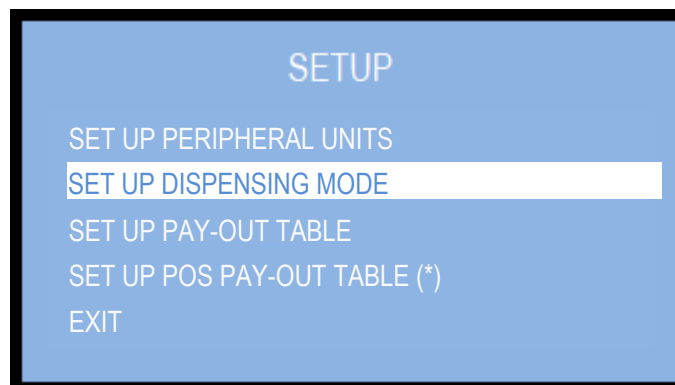
(*) appears only if POS has been enabled (see section *7.3.6.1.C*)

Press OK to start the modification of the current setting: the mode latter setting (ex. AUTOMATIC) will be displayed. When set to AUTOMATIC mode, and the Pay-out Table is disabled, the machine will pay out as much evenly as possible from each hopper (e.g. 5 pcs from HP1, 5 pcs from HP2, 5 pcs from HP3, 5 pcs from HP4); if set to AUTOMATIC mode, and the Pay-out Table is enabled, the machine will pay out the combination preset by the Operator (see section 7.6.3.A).

```
              SETUP

  DISPENSING MODE:        AUTOMATIC

  LEVELSENSORS:           DISABLED

  VALUES IN HP:           PRESS OK
```
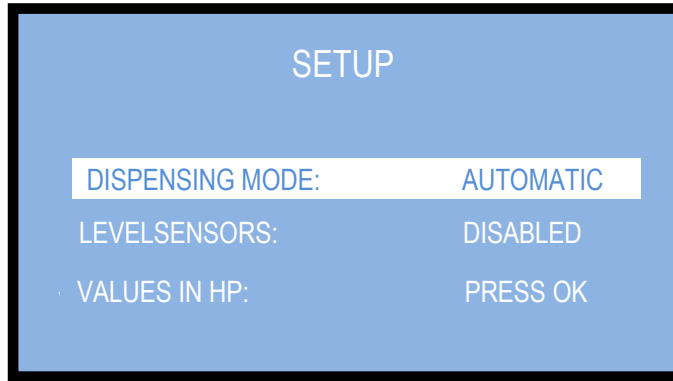
To transform the setting to MANUAL 2P, press the "**+**" key or the "**-**" key. The MANUAL 2P mode allows the following:
- when the Pay-out Table is disabled:
1) to select the type of coin or token denominations that he wishes, if hoppers contain only tokens or only coins;
2) to select how many tokens he wants to obtain, if hopper 1 contains Tokens and hopper 2 contains coins.
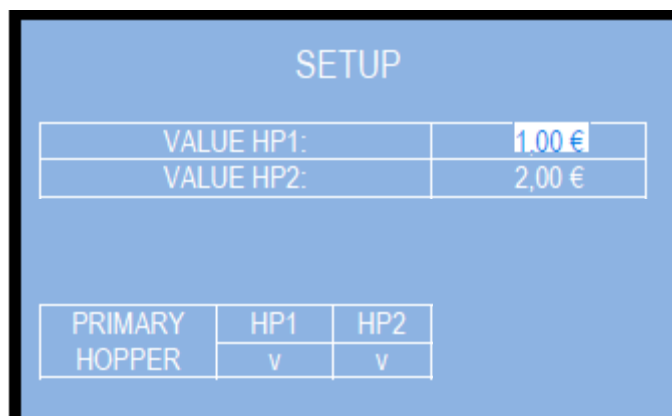- when the Pay-out Table is enabled :
3) to obtain the combination of coins and/or tokens that he wishes to receive, choosing among the ones that have been preset by the operator (see section 7.3.6B). The User will check the available options by pressing the SEL button, and will start the payment of the chosen option by pressing the CONFIRM button.

LEVEL SENSORS: if the control is ENABLED, and the coins drop below the minimum level, the display warns that the hoppers are empty. However they still contain a certain quantity of pieces, generally sufficient to be able to finish a possible dispensing. If, on the other hand, the empty state is detected when the machine is (re)started, the display will show "Out of Service", and it will be necessary to fill the hoppers. If instead the control is DISABLED, the quantity of available coins is not monitored, therefore the machine will command the hoppers to dispense coins even if they are empty. If the hoppers become empty during dispensing, the display will show the remaining credit. If they remain empty when finished dispensing or are empty when turned on, no alerts will appear.

VALUES in the HOPPERS: following to that, It is possible to set the hoppers for the wished coin denominations. If the unit includes the Note Recycler, the banknote values to be recycled can be set as well.


```
              SETUP

  DISPENSING MODE:

  LEVELSENSORS:           DISABLED

  VALUES IN HP:           PRESS OK
```
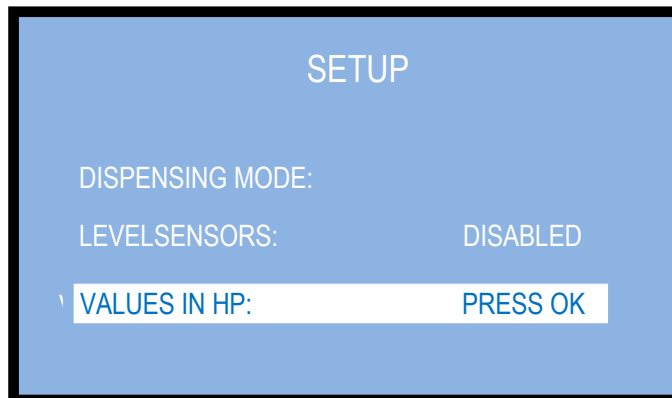
Press OK to check or modify the default or the current settings. The display will show the following table:


```
              SETUP

  VALUE HP1:              1.00 €
  VALUE HP2:              2,00 €



  PRIMARY    HP1    HP2
  HOPPER      v      v
```

By pressing the OK button, highlight the box that needs be changed, then press the "**+**" key or the "**-**" key to respectively increase or decrease the value of the coin denomination to be paid out by the hopper.

It is possible to set which hopper must preferably pay out, i.e. when tokens are dispensed by e.g. HP1, and the Operator wishes to sell as many tokens as can be purchased by the money introduced. This is obtained by setting HP1 only as Primary Hopper.

PLEASE NOTICE: if the Note Recycler is part of the machine, this section will offer as well the possibily to set the note denominations to be recycled: choose them among the accepted ones.

The default setting for the Note Recycler is 50 € / 20 €. Press first "- "/ "+" to move the highlighted combination, then press "OK" to confirm the wished one and to return to the previous menu.
PAY ATTENTION: it is not possible to reverse the order in the combinations: the greater value is always matched to Recycler 1 (which means: it is not possible to program the € 20 in the RC1 and the € 50 in the RC2).

7.3.6.3 Setup the Pay-out Table

When the Pay-out Table is enabled, the Operator can set different change combinations related to the amount introduced by the User; different operating options can be set, according to whether the DISPENSE MODE has been set to AUTOMATIC mode or to MANUAL mode. The POS has its own dedicated table, that will be made available in the Menu only if the Dispensing Mode has been set to AUTOMATIC. If the Pay-out Table has not been set, the POS will not operate.

(*) appears only if POS has been enabled (see section 7.3.6.1.C)

Press "+"/"-" to change the state of the function between ENABLED and DISABLED. According to which choice is made, see possible operation in the next pattern:

- if the Pay-out Table is ENABLED, it will be possible to set its values;
- if it is DISABLED, and the machine is set to AUTOMATIC mode, the system will pay balanced quantities of pieces out from each hopper;
- if it is DISABLED, and the machine is set to MANUAL mode, the system will prompt the User to choose the coin denomination/token (= from which hopper) he wishes to receive as change for the amount introduced.

PAY-OUT TABLE	AUTOMATIC MODE	MANUAL MODE	POS MODE
ENABLED	See section 7.3.6.3.A	See section 7.3.6.3.B	See section 7.3.6.3.C
DISABLED	Change of the whole amount introduced, in balanced quantities from the dispensers	Number of Tokens/Denominations as per User's choice	Number of Tokens as per User's choice

The amounts in the LEVEL boxes can be set to determined values (typically, the accepted coin and note denominations), while the relevant boxes following in the same line can be set to any of the options below:

- if Cash only will be dispensed: number of pieces so that their combination matches the amount set in the LEVEL box;
- if Tokens only will be dispensed: any desired value - this will allow for bonus award as well. If accumulation of credit (to reach the bonus level) is necessary, please set the Dispensing Mode to MANUAL.
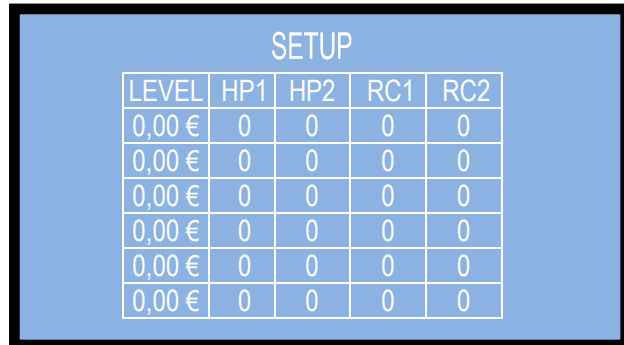- if Tokens and return cash change will be dispensed: any consistent combination.

WARNING: when finished setting the Payout table, the display prompts for "Reset Total Accounts" (see section 7.3.5), in order to prevent any possible future data inconsistency.

7.3.6.3 A   PAY-OUT TABLE IN THE AUTOMATIC MODE [6 levels available; each level one combination]

Once confirmed the Enable option by pressing OK, the display proposes the following patterns (the one at the right side appears only when the machine includes the Note Recycler):

SETTING THE PATTERNS IN THE AUTOMATIC MODE:
highlight first level by "OK" and set its value by the "**+**" key, then confirm by "OK".
The cursor will highlight the HP1 box: confirm by "OK", and set its value by the "**+**" key (modify by "**-**"), then confirm by "OK", and so on. Shift from first to second level by the "**+**" key, and repeat the above process.

HOW IT WILL WORK AFTER SETTING THIS TABLE: when the User insertS money corresponding to any of the programmed levels, the machine shall pay out the combination of pieces that the Operator has pre-programmed for the amount inserted by the User (see section 6.1). See next page for some examples of settings.

EXAMPLES of SETTINGS:

☞ ***Please notice: starting from fw version 1.22, level lines appear individually, i.e. as in Manual Mode but one line only.***

Taking as example that the values in the hoppers have been set to HP1=2€, HP2=0,50€, the Operator might set the change combinations to be dispensed as beside:

SETUP		
LEVEL	HP1	HP2
1,00 €	0	2
2,00 €	0	4
5,00 €	2	2
10,00 €	4	4
20,00 €	8	8
50,00 €	20	20

Even the pattern alongside could be programmed with full rights, as well as other legitimate combinations, irrespective of whether the hoppers contain tokens or coins.

SETUP		
LEVEL	HP1	HP2
1,00 €	0	2
2,00 €	1	1
5,00 €	1	6
10,00 €	5	0
20,00 €	9	4
50,00 €	22	12

Assuming that the hoppers dispense Tokens = 1 €, the setting shown beside will bestow multiple or single Token bonus for increasing amounts introduced

The table can also be set to provide bonus when the hoppers contain Tokens with different value.

SETUP		
LEVEL	HP1	HP2
1,00 €	1	0
2,00 €	1	1
5,00 €	3	2
10,00 €	10	1
20,00 €	20	4
50,00 €	50	10

Such system makes even for when the Operator wants to sell only one or only a limited amount of pieces. For example, for a Machine dispensing 5 € Tokens and change (HP1=5€, HP2= 1,00€), the below pattern would suit:

SETUP		
LEVEL	HP1	HP2
5,00 €	1	0
10,00 €	2	0
20,00 €	3	5
30,00 €	4	10
40,00 €	6	10
50,00 €	8	10

If HP1 gets empty, then the other hopper will return change equivalent to the cashed amount.

PLEASE PAY ATTENTION! if all the boxes in the pattern are set to 0 (zero), the machine will then behave as if the Pay-out Table is disabled, so paying out as much evenly as possible from each hopper.

7.3.6.3 B   PAY-OUT TABLE IN THE MANUAL MODE [9 levels available, each level allows 3 combinations]

Once the Enabled option has been confirmed by the OK button, the display will show the following pattern of 3 available combinations relevant to the first pay-in level:

SETUP	
> LEVEL 1	0,00 €

HP1	HP2
0	0
0	0
0	0

Nine (9) levels can be set for the amounts introduced by Users. Such amounts must be entered in the box right of the LEVEL 1, …, LEVEL 9 legends. For each of the 9 levels, 3 different combinations can be programmed.

HOW IT WILL WORK AFTER SETTING THIS TABLE: when the User will introduce the relevant amount of money, he will be prompted to choose among the 3 programmed combinations associated to that amount (see section 6.1).

SETTING THE PATTERNS IN THE MANUAL MODE:

Highlight LEVEL 1 and confirm it by OK; the cursor will shift to the value box: set such value by the "**+**" button (make corrections by the "**-**" button), then confirm by "OK" (ex. 1,00 €).

The cursor will return at the left of the LEVEL 1 box; step down by the "**+**" button to the table underneath so as to start setting the number of pieces to be dispensed by the hoppers. Confirm by "OK" to modify the first box of the HP1 column, then set it by the "**+**" button (make corrections by the "**-**" button), and confirm by "OK".

The cursor will shift to the HP2 box in the first line. Continue in the same way until first line is fully set.

Press "OK" to move the cursor back before the first line, and press the "**+**" button to shift it to the second line.

Go on as explained above until the 3ʳᵈ line (or previous, if enough for your purpose) has been filled.

When the cursor returns left of the 3ʳᵈ line, press the "**+**" button to make the exit icon (>) available at the bottom right corner of the display.

As an example, supposing that HP1=2€, HP2=0,50€, the following pattern could be programmed for LEVEL 1 = 1 €:
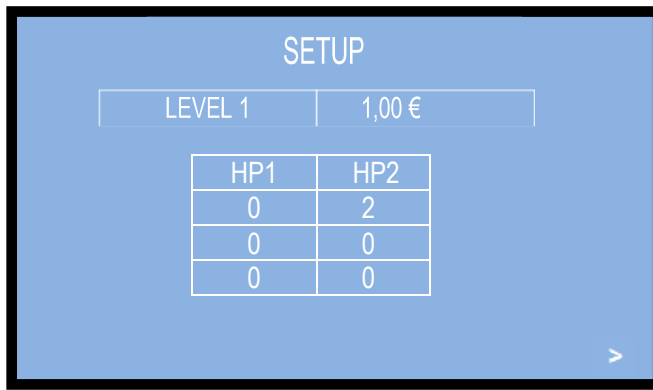
SETUP	
LEVEL 1	1,00 €

HP1	HP2
0	2
0	0
0	0

>

Press "OK" to open the following LEVEL 2. Repeat as above using a higher value and the relevant 3 possible combinations, then shift to LEVEL 3, choosing 3 possible combinations out of all the valid ones for the amount set in Level 3, and so on, until last level (LEVEL 9) is completed, e.g.:

SETUP	
LEVEL 3	5,00 €

HP1	HP2
2	2
1	6
0	10

>

…

SETUP	
LEVEL 5	20,00 €

HP1	HP2
10	0
8	8
5	20

>

………

SETUP	
LEVEL 9	100,00 €

HP1	HP2
40	40
30	28
….	….

>

When confirming the exit arrow icon (>) after Level 9, the system will save all the programmed settings.

 - If the Operator wants to make available only a limited number of combinations options (ex. only 2 options), he will leave 0 in all the boxes of the row no. 3.

 - If the Operator wants to set only a limited number of levels (ex. 7 levels out of the 9 programmable), he will leave 0 in all the boxes of levels 8 and 9.

PLEASE PAY ATTENTION: if all the boxes in each level are set to 0 (zero), the machine will react as if the Pay-out Table is disabled; so it will prompt the User to choose from which hopper (i.e. which Token or coin or banknote denomination) he intends to collect his change.

7.3.6.3 C   PAY-OUT TABLE IN POS MODE [10 levels available, each level allows 3 combinations]

NOTICE: please do remember that POS can purchase only TOKENS.

The POS Pay-out table will be available for set-up in the display Menu ONLY if the POS has been enabled (see section *7.3.6.1.C   Enable POS Terminal*).

Select and confirm 'Enable': the display will show the following pattern of 3 available combinations relevant to the first pay-in level:

SETUP

LEVEL 1	0,00

HP1	HP2
0	0
0	0
0	0

Nine (9) levels can be set for the amounts introduced by Users. Such amounts must be entered in the box right of the LEVEL 1, …, LEVEL 9 legends. For each of the 9 levels,3 different combinations can be programmed.

HOW IT WILL WORK AFTER SETTING THIS TABLE: when the User will introduce the relevant amount of money, he will be prompted to choose among the 3 programmed combinations associated to that amount (see section 6.1).

SETTING THE PATTERNS IN THE POS MODE:
Highlight LEVEL 1 and confirm it by OK; the cursor will shift to the value box: set the first level value in the box by the "**+**" button (make corrections by the "**-**" button), then confirm by "OK" (ex. 1,00 €).
The cursor will return at the left of the LEVEL 1 box; step down by the "**+**" button to the table underneath so as to start setting the number of pieces to be dispensed by the hoppers.
Confirm by "OK" to modify the first box of the HP1 column, then set it by the "**+**" button (make corrections by the "**-**" button), and confirm by "OK".
The cursor will shift to the HP2 box in the first line. Continue in the same way until first line is fully set.
Press "OK" to move the cursor back beside the first line, and shift to the second line then by pressing the "**+**" button.
Go on as explained until the 3rd line (or previous, if enough for your purpose) has been filled.
When the cursor returns left of the 3rd line, press the "**+**" button to make the exit icon (>) available at the bottom right corner of the display.

As an example, supposing that HP1=Tokens=1€, HP2= Tokens=0,50€, the following pattern can be programmed for LEVEL 1=1 €:
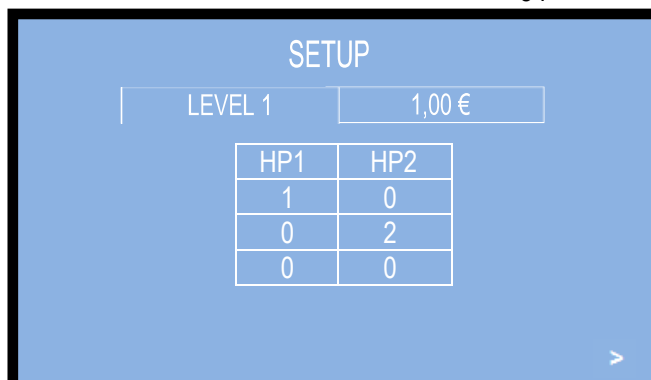
SETUP

LEVEL 1	1,00 €

HP1	HP2
1	0
0	2
0	0

Press "OK" to open the following LEVEL 2. Repeat as above using a higher value and the relevant 3 possible combinations, then shift to LEVEL 3, choosing 3 possible combinations out of all the valid ones for the amount set in Level 3, and so on, until last level (LEVEL 10) is completed, e.g.:

SETUP	
LEVEL 3	5,00 €

HP1	HP2
5	0
2	2
1	6

>

...

SETUP	
LEVEL 5	10,00 €

HP1	HP2
5	10
6	8
7	6

>

....

SETUP	
LEVEL 10	50,00 €

HP1	HP2
20	60
30	40
40	20

>

When confirming the exit arrow icon (>) after Level 10, the system will save all the programmed settings.
- If the Operator wants to make available only a limited number of combinations options (ex. only 2 options), he will leave 0 in all the boxes of the row no. 3.
- If the Operator wants to set only a limited number of levels (ex. 7 levels out of the 10 programmable), he will leave 0 in all the boxes of levels 8, 9, and 10.

PAY ATTENTION: if all the boxes in each level are set to 0 (zero), the machine will react as if the Pay-out Table is disabled; so it will prompt the User to choose from which hopper (i.e. denomination) he wants to collect his change.

7.3.6.4 Exit
To return to the upper menu level, highlight the EXIT line by the "**+**" button-key, and confirm by "OK".

7.3.7 EMPTY OUT THE DISPENSERS

Use this function to make the selected dispenser(s) pay out all the contained coins / tokens, or, if device is a note recycler, to make it move the contained banknotes in the note validator stacker. During emptying, and once emptied the first dispenser, the relevant emptied amount shall be displayed. Press OK to go on with the second dispenser.
Press OK to get access to the emptying options; then press the "**+**" / "**-**" keys (or the "LANGUAGE / SEL" buttons on the front door) to shift down to the next options; press OK (or the "CONFIRM" button) to start emptying the highlighted device:

EMPTY OUT DISPENSERS
NOTE DISPENSER
COIN DISPENSER Nr. 1
COIN DISPENSER NR. 2
EXIT

PLEASE NOTE: if the emptying menu remains still for over 1 minute (e.g. without receiving any command, as for instance when the service staff might forget to exit the menu after service operations), the system will return to stand-by, to prevent the risk that unauthorized person may have free access to the controls.

7.3.8   RESTORE DEFAULT CONFIGURATION ↺

To use this sub-menu it is necessary to enter the PIN code:
use first the "**+**" and "**-**" keys to set each figure, then confirm it by OK.
As every single figure gets confirmed, an asterisk takes its place, so preserving secrecy.
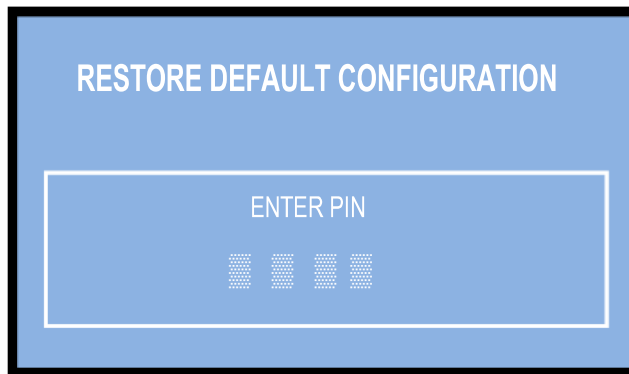
RESTORE DEFAULT CONFIGURATION
ENTER PIN

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

Once the 4th character of the PIN has been confirmed, reset will be started. Then, the message RESTORED SETTINGS will appear briefly, while the machine exits the menu and returns to the stand-by condition:
WARNING: in case of reset to the default configuration, the PIN code will be reset to the default 0000 setting. Account records shall not be cancelled.

DEFAULT CONFIGURATION RESTORED
…. EXIT MENU, PLEASE WAIT….

7.3.9   SET UP MAIN LANGUAGE

Choose the language you wish to use as the standard communication language on the display. Make use of the "+" and "-" button-keys, and confirm with the OK key.
If a User speaking a different language wishes to use the machine, he can make his choice among the available idioms from the "Change Language" courtesy button.
NOTICE: the display will restore the programmed language 1 minute after the machine has remained idle.

SET UP LANGUAGE
ITALIANO
ENGLISH
DEUTSCH
NEDERLANDS

### 7.3.10   MODIFY THE PIN

The PIN code allows the Owner of the machine to get access to the discretional menus of the system.
The PIN code is made up by 4 characters (each of them a figure from 0 to 9: 10,000 combinations available).

PAY 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 single figure, first set its value by "+" and "-" keys, then confirm it by OK. The cursor will shift to the next character. As every single figure gets confirmed, an asterisk takes its place, so preserving secrecy. Once the 4th figure has been confirmed, the Operator will be prompted to enter the new PIN:
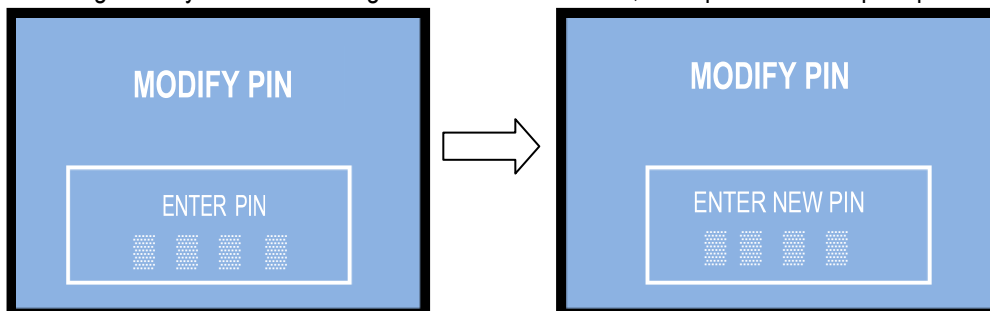
MODIFY PIN	⇨	**MODIFY PIN**
ENTER PIN		ENTER NEW PIN

If the entered PIN is not correct, the User is given another 4 tries before the board gets blocked-up by its security interlock. Before the 5th error, the system can be started again by switching it off and on again. After the 5th error, the machine will be blocked, while the display will show two codes. Please send such codes to Alberici Assistance, to get reset information.

Once the new PIN has been entered, the machine will return to the upper menu.
WARNING: in case of reset to the default configuration, the PIN code will be reset to the default 0000 setting.

7.3.11   EXIT MENU

Press OK to go back to stand-by condition.
The display will invite to wait until the stand-by screen
is restored and the unit is ready to resume operation

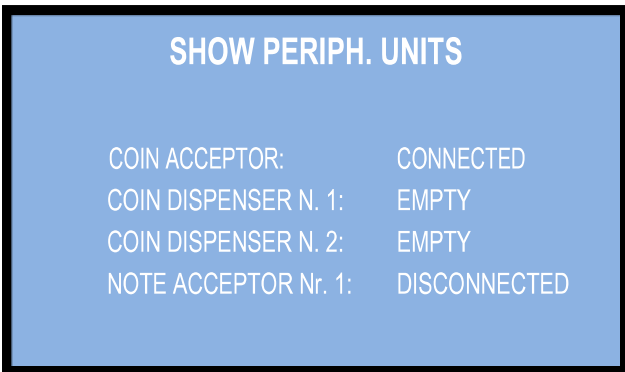**EXIT MENU**

PLEASE WAIT

8. Messages

8.1 Messages from the Machine display

8.1.1   FAULTY OPERATION:
When all dispensers are empty, or when any critical
combination of working conditions prevents the unit
to operate properly, the following message gets displayed:

HIRA 2

OUT OF SERVICE

If the "OUT OF SERVICE" alert appears, check the status of the peripheral units in the menu ⊞⊞ (see section 7.3.3).
The screen will display the status of the entire system.

SHOW PERIPH. UNITS

COIN ACCEPTOR:	CONNECTED
COIN DISPENSER N. 1:	EMPTY
COIN DISPENSER N. 2:	EMPTY
NOTE ACCEPTOR Nr. 1:	DISCONNECTED

8.1.2   REMAINING CREDIT (UNFINISHED TRANSACTION):
If there is not enough cash in the dispensers to complete the transaction, the remaining credit shall be displayed and
retained in memory.

The message:

REMAINING CREDIT

NN €

becoming:

INTRODUCED NN,NN €

INSUFFICIENT CREDIT
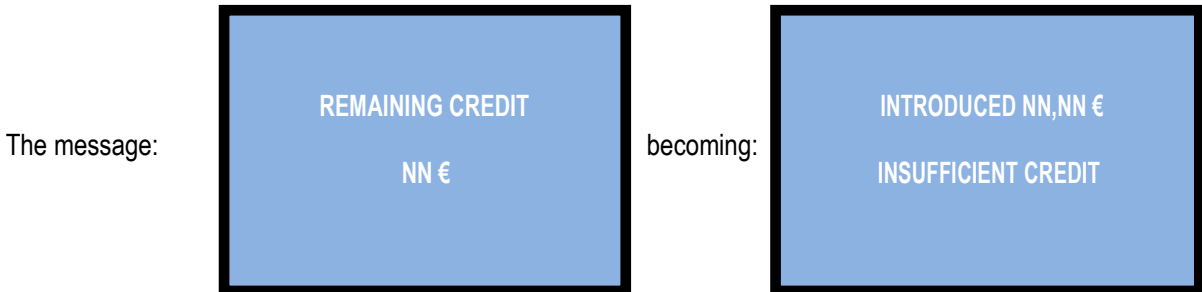
and back, means that the cash available for paying the remaining amount has run out. Therefore, it is necessary to
insert enough money to reach (at least) the next available price, so that the machine can dispense the
correspondent quantity of tokens and cancel the remainder amount.
If this is not possible, and an Operator is present, he could switch off the machine, fill the hoppers, and power it on
again: the remaining credit shall be paid out. **Else, act as explained in section *7.3.5.2 Handling of the
Remaining Credit*.**

8.1.3 COD. RI (CPU BLOCKED)

The 'Code RI' message means that there has been an event that makes it wise to hold the EPROM from operating.
If it pops up, hold down for 5 seconds the 3 "OK", "+", and "-" buttons (from behind the display pcb) at the same time: such operation will possibly restore the working conditions, though it 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.

8.2 Messages from the Note Validator

8.2.1 FAULTY OPERATION:

In operation, the amount of red flashes produced by the entry slot indicates possible malfunctions (see chart below):

nr of red flashes	Description
1	Validator is open
2	Jammed banknote
3	Fraud attempt detected
5	Adjust optic sensors
7	Stacker full (OryOne Only)
9	Low power supply
11	Check operation of the encoder + efficiency of the validator motor
12	Check operation of the encoder + efficiency of the stacker motor (OryOne only)
14	ROM error

Inlet bezel colour warnings
Two repeating blue blinking: *the stacker has been removed, or its detection sensor is faulty.*
Regular blue blinking: *dip-switch 1 is to OFF position (Pulse mode).*
Solid yellow: ccTalk communication error. Check voltage level (12 or 24Vdc). Power off and on.

Fraud-fishing protection
The banknote reader is equipped with a security device that gets activated in the event of fishing fraud attempts repeated over a period of time.
This device can be set through the dip-switch SW8 (DS-row on the Validator side) to operate in a "soft" mode (* DS8 = ON) or in "extended" mode (** DS8 = OFF), according to the following table.
* DS8 = ON: if set on "soft" anti-fraud mode, the banknote is returned at each attempt of fraud, without any light signaling, as if it was an unknown denomination.
** DS8 = OFF: if set to "extended" anti-fraud mode, the validator returns the banknote without reporting the fraud, and remains in operation. On the 3rd attempt, the reader sets automatically to warning mode and the inlet bezel flashes three times red. Power the device off and on again. The same happens on the 4th fraud attempt. On the 5th fraud attempt, the reader goes into error mode, and emits successive sequences of three yellow flashes.
Please wait for automatic recovery, without turning off the unit.

(*) Dip-Switch SW8 ON
Any attempt at "fishing" will cause the note to be rejected, without showing any visible signal.

| (**) Dip-Switch SW8 OFF		
Attempt	**Validator reaction**	**Do as described below**
1th	Remains in service	-
2th	Remains in service	-
3th	> error (3 red flashes)	Reset (switch off then on)
4th	> error (3 red flashes)	Reset (switch off then on)
After the 5th fraud attempt (3 yellow flashes), it is necessary to wait for automatic restore of service. Take care not to switch the device off.		

9. Cleaning the Note Validator

• **Manual cleaning**

⚠️

The ability of acceptance may decrease due to the accumulation of dust and cellulose dust released by banknotes during transit, or because of residues or sprays, which may spread on the detecting sensors and on transmission parts.

It is therefore recommended to **clean these parts at least monthly**, as indicated below.

1. Turn power off and unplug the cable from the 10-pin connector interface. Press the yellow button C, located under the reader, to release the main body from the faceplate, and slide it backwards.
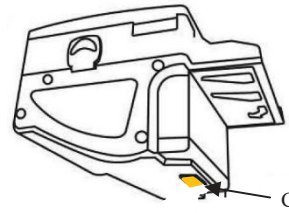
2. Move the D button upward, hold it while sliding the cover backwards; then lift the latter up and rotate it 180° to the right side.
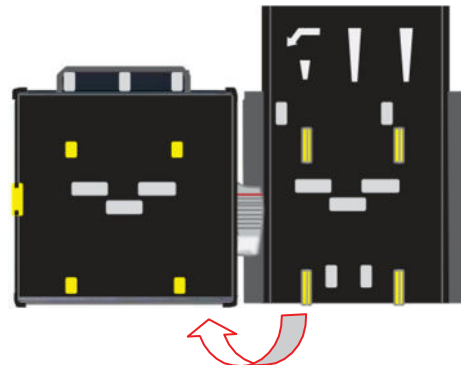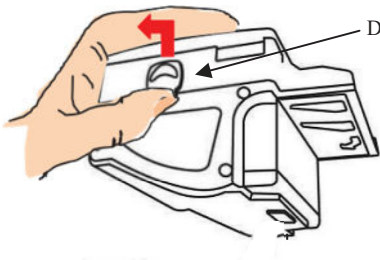
3. Gently wipe the sensors with a clean, lint-free tissue, or with a cotton swab, or with a small sponge, possibly moistened with isopropyl alcohol.

4. Completely remove the dust and residues from the 4 silicone rollers, and from the 4 elastic matching wheels which are located in the lower surface of the upper lid. To remove the most stubborn dirt from rollers and wheels, use *isopropyl alcohol.*
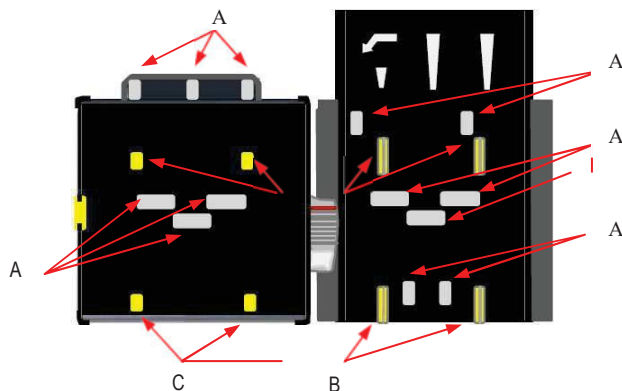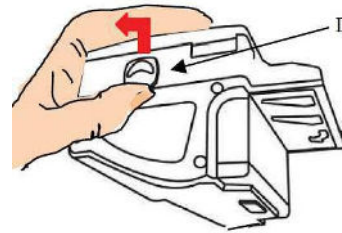
PAY ATTENTION: *do not use organic detergents (ex. alcohol, thinners or petrol). Use only isopropyl alcohol.*

1. Sensors
2. Rollers
3. Elastic matching wheels

- **Clearing jammed banknotes**

CAUTION! Turn off power before opening its upper lid.

Open the top cover by pressing D, and pull out the stuck banknote (as well as any other objects that will hinder the transit).

10. 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.

11. 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 unwilled 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.

12. 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.
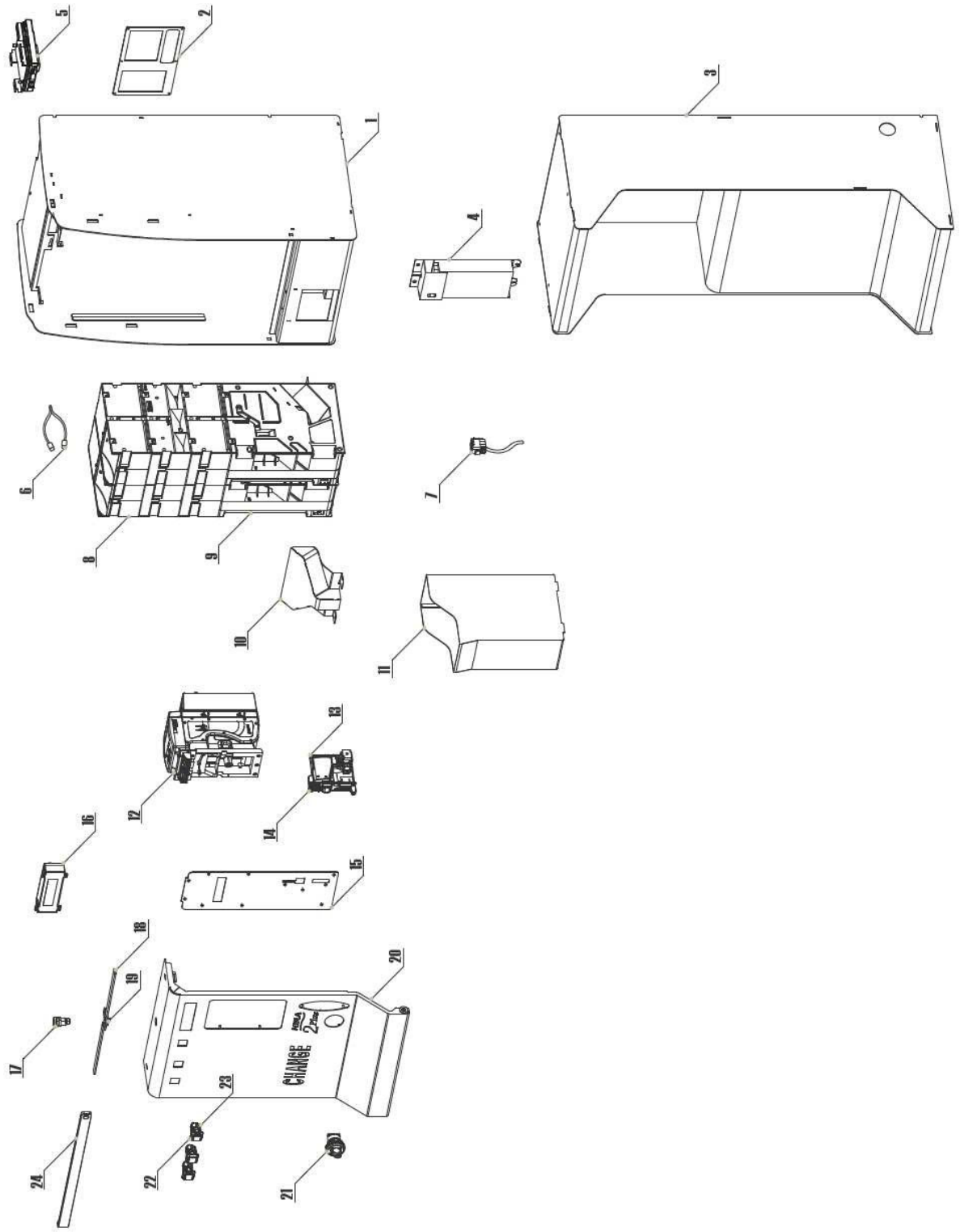
ATTACHMENT: Spare parts List

HIRA 2 Maxi

LISTA PARTI PARTS LIST

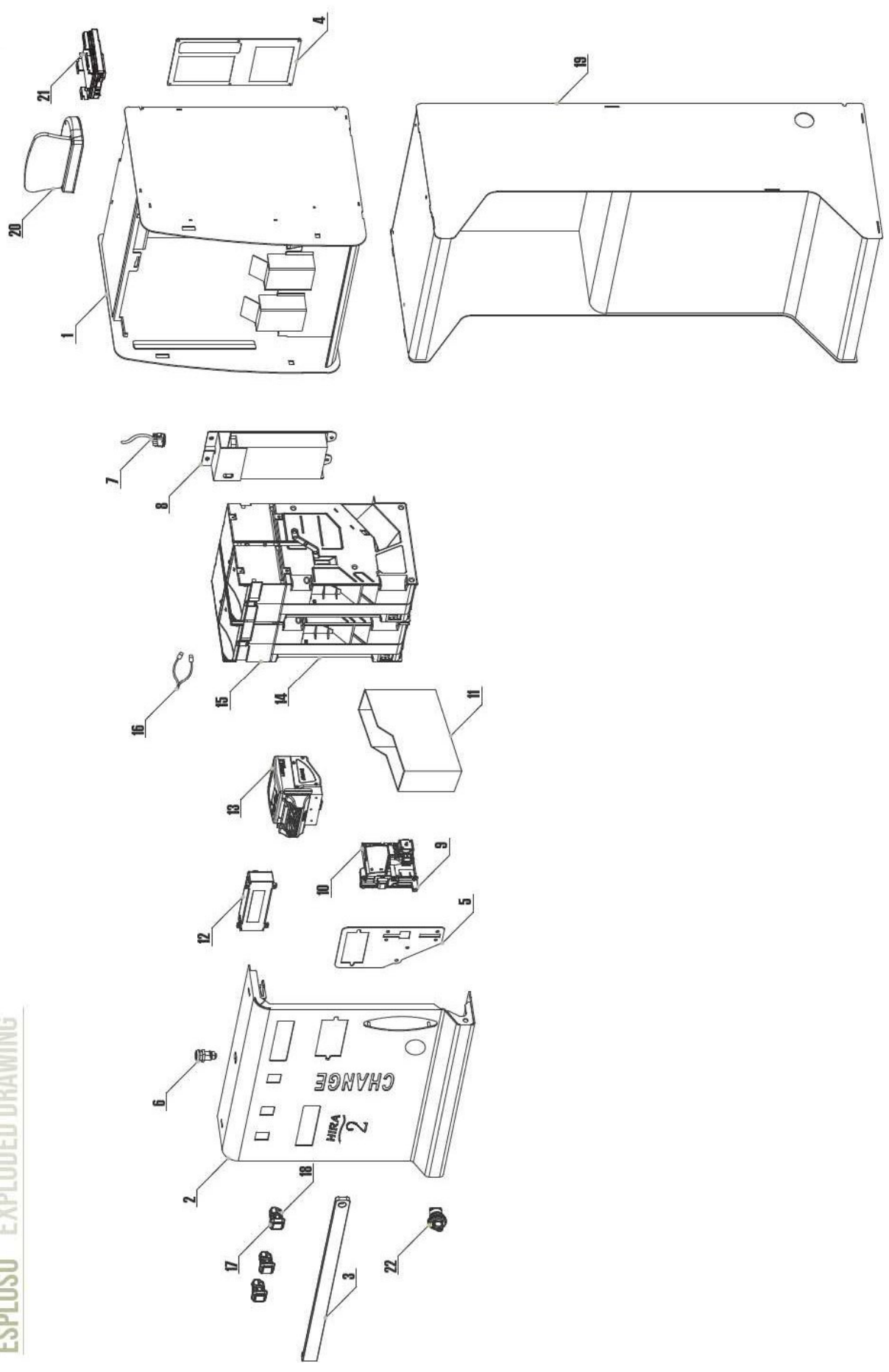| REF.	OPT.	COD.	DESCRIZIONE	DESCRIPTION
1		HRS-001A-V06	Mobile (senza periferiche)	Unit core (w/o Per units)
2		P-AM0702-10T	Portatarga P3	P3 Paper holder
3		AA-0163	Piedistallo	Free-standing support
4	4a	A-CM0050	Assemblaggio alimentatore	RD-125 Power unit with bracket
	4b	AE-0806	Alimentatore RD-125	RD-125 Power box
5	5a	AA-0175	Modulo Hermes GPRS-GSM-GPS / Wi-Fi modello a Pinna	GPRS-GSM-GPS / Wi-Fi Module Kit - Pin Aerial model
	5b	AA-0172	Modulo Hermes GPRS-GSM-GPS / Wi-Fi modello a Disco	GPRS-GSM-GPS / Wi-Fi Module Kit - Disk Aerial model
	5c	AA-0173	Modulo Hermes GPRS-GSM modello a Pinna	GPRS-GSM Hermes Module Kit - Pin Aerial model
	5d	AA-0170	Modulo Hermes GPRS-GSM modello a Disco	GPRS-GSM Hermes Module Kit - Disk Aerial model
	5e	AA-0174	Modulo Hermes Wi-Fi modello a Pinna	Wi-Fi Hermes Module Kit - Pin Aerial model
	5f	AA-0171	Modulo Hermes Wi-Fi modello a Disco	Wi-Fi Hermes Module Kit - Disk Aerial model
6		S-030212-000	Cablaggio estensione per Sens. Ott. Liv. Max	Full level cable for capacity extension
7		S-030183-010	Cablaggio generale Hira 2 Maxi	Hira 2 Maxi wire harness
8		AA-0315	Sector 300 1B/2C prolunga per Hopper	Sector 300 1B/2C capacity extension
9	9a	K-02C-020003	HopperOne S11 ccTalk con schedino 10p	HopperOne S11 ccTalk + 10p adaptor
	9b	K-02C-040016	Hopper AH4 Discriminator II ccTalk con schedino 10p	Hopper AH4 Discriminator II ccTalk + 10p adaptor
10		HRS-002A-Z00	Canalizzatore monete	Coin funnel
11		HRS-011A-Z00	Cassetta moneta metallica	Metal coin box
12	12a	LB-LU01	Lettore banconote BillyOne UN1	BillyOne UN1 note validator
	12b	LB-MU02	Lettore banconote OryOne UN1	OryOne UN1 note validator
13		GE-66SU	Gettoniera elettronica AL66 S ccTalk mod.	AL66 S mod. ccTalk coin acceptor
14		IM-N000-0L10	Introduzione moneta PP	PP inner bracket for coin acceptor
15	15a	HRS-060A-I00	Piastra supporto Payter®+OryOne UN1	Payter®+OryOne UN1 support plate
	15b	HRS-061A-I00	Piastra supporto Payter®+BillyOne UN1+gettoniera	Payter®+BillyOne UN1+coin acceptor support plate
	15c	HRS-062A-I00	Piastra supporto OryOne UN1+gettoniera	OryOne UN1+coin acceptor support plate
	15d	HRS-063A-I00	Piastra supporto BillyOne UN1+gettoniera	BillyOne UN1+coin acceptor support plate
	15e	HRS-064A-I00	Piastra supporto BillyOne UN1	BillyOne UN1 support plate
	15f	HRS-065A-I00	Piastra supporto OryOne UN1+gettoniera+ACS	OryOne UN1+coin acceptor+ACS support plate
16		SH-1A21	Scheda elettronica CMS (display blu 2x16)	CMS electronic control board (2x16 blue display)
17		AM-1509	Serratura sicurezza Flat Key sportello	Safety lock Flat Key
18		HRS-009A-Z00	Asta per chiusura	Locking bar
19		HRS-008A-Z00	Fulcro per serratura	Lock pin
20		HRS-007-V08	Sportello	Hira 2 Maxi door
21		CH-BC01	Lettore ACS Round ccTalk/Pulse	ACS Round module ccTalk/Pulse
22		PL-MK21-ET60	Puls. lum. miniatura Halo 21 (senza portamicro)	Illuminated push-button Halo miniature 21 (w/o socket)
23		PO-C4A1-Z000	Portamicro elettronico L.E.D. RGB	RGB L.E.D. Mini electronic socket
24		HRP-005A-V06	Barra di chiusura	Anti-intrusion steel bar

HIRA 2 Midi

LISTA PARTI PARTS LIST

REF.	OPT.	COD.	DESCRIZIONE	DESCRIPTION
1		HR2-001A-V06	Assemblato mobile (senza periferiche)	Unit core assembly (w/o Per. units)
2		HR2-006A-V08	Assemblato sportello (con serratura)	Hira 2 door (includes lock)
3		HR2-005A-V06	Barra di chiusura	Anti-intrusion steel bar
4		P-AM0702-10T	Portatarga P3	P3 Paper holder
5	5a	HR1-019A-I00	Piastra chiusura foro gettoniera elettronica	Cut-out closure plate
	5b	HR1-020A-I00	Piastra supporto gettoniera elettronica	Coin acceptor support plate
6		AM-1509	Serratura sicurezza Flat Key sportello	Safety lock (Flat Key)
7		S-030180-000	Cablaggio generale Hira 2	Hira 2 wire harness
8	8a	A-CM0249	Assemblato alimentatore con cavo (include alimentatore)	RD-125 Power box with bracket
	8b	AE-0806	Alimentatore RD-125	RD-125 Power box
9		IM-N000-0L10	Introduzione moneta PP	PP Inner bracket for coin acceptor
10		GE-66SU	Gettoniera elettronica AL66 S ccTalk mod.	AL66 S mod. ccTalk coin acceptor
11	11a	HR1-011A-P00	Cassetta moneta Hira per gettoniera	Metal coin box
	11b	AM-1305	Cassetta monete tipo "A"	Coin box "A"
12		SH-1A21	Scheda elettronica CMS (display blu 2x16)	CMS electronic control board (2x16 blue display)
13	13a	LB-LU01	Lettore banconote BillyOne UN1	BillyOne UN1 note validator
	13b	LB-MU02	Lettore banconote OryOne UN1	OryOne UN1 note validator
14	14a	K-02C-020003	HopperOne S11 ccTalk con schedino 10p	HopperOne S11 ccTalk + 10p adaptor
	14b	K-02C-040016	Hopper AH4 Discriminator II ccTalk con schedino 10p	Hopper AH4 Discriminator II ccTalk + 10p adaptor
15		AA-0309	Sector 100 1B/2C prolunga per Hopper	Sector 100 1B/2C capacity extension
16		S-030212-000	Cablaggio estensione per Sens. Ott. Liv. Max	Full level cable for capacity extension
17		PL-MK21-ET60	Puls. lum. miniatura Halo 21 (senza portamicro)	Illuminated push-button Halo miniature 21 (w/o socket)
18		PO-C4A1-Z000	Portamicro elettronico L.E.D. RGB 12V	RGB L.E.D. Mini electronic socket
19		AA-0148-0600	Piedistallo	Free-standing support
20		TL-46S1	Testata luminosa Keeper	Keeper illuminated topper
21	21a	AA-0175	Modulo Hermes GPRS-GSM-GPS / Wi-Fi modello a Pinna	GPRS-GSM-GPS / Wi-Fi Module Kit - Pin Aerial model
	21b	AA-0172	Modulo Hermes GPRS-GSM-GPS / Wi-Fi modello a Disco	GPRS-GSM-GPS / Wi-Fi Module Kit - Disk Aerial model
	21c	AA-0173	Modulo Hermes GPRS-GSM modello a Pinna	GPRS-GSM Hermes Module Kit - Pin Aerial model
	21d	AA-0170	Modulo Hermes GPRS-GSM modello a Disco	GPRS-GSM Hermes Module Kit - Disk Aerial model
	21e	AA-0174	Modulo Hermes Wi-Fi modello a Pinna	Wi-Fi Hermes Module Kit - Pin Aerial model
	21f	AA-0171	Modulo Hermes Wi-Fi modello a Disco	Wi-Fi Hermes Module Kit - Disk Aerial model
22		CH-BC01	Lettore ACS Round ccTalk/Pulse	ACS Round module ccTalk/Pulse

CHANGE

HIRA 2

Alberici

DICHIARAZIONE DI CONFORMITÀ

C E

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,**
D I C H I A R A

Che il sistema classificato nella famiglia di prodotto **apparecchio elettrico d'uso domestico e similare – Cambiamonete/banconote,** finito di costruire e collaudare il___ / ___ / _____, identificato univocamente da:

Modello	Configurazione			N° di Serie e/o matricola
	☐ OryOne-S11	☐ OryOne-AH4	☐ display 5"	
Hira 2 Midi CM	☐ BillyOne-S11	☐ BillyOne-AH4	☐ display 2x16	– – – – – – – – – – – –

Essendo realizzato conformemente al modello campione denominato Hira 2 Midi CM avente matricola (numero di serie) 0000003, finito di testare positivamente ai fini EMC e LVD (rapporto 7415 CE - Hira2 Midi.doc) il 22/12/2017, dalla STP S.r.l., con sede legale in via P.F. Andrelini, 42, 47121 Forlì (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 (CEI 61-150);
   - CEI EN 60335-2-82 (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:
   - L. 791 del 18 Ottobre 1977 e s.m.
   - 2014/35/UE del 26 Febbraio 2014;

c)   in conformità ai requisiti essenziali di sicurezza della Direttiva Compatibilità Elettromagnetica:
   - D.Lgs. 194 del 06 Novembre 2007.
   - 2014/30/UE del 26 Febbraio 2014;

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

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

Fabrizio Alberici
Il Presidente

DICHIARAZIONE DI CONFORMITÀ

C E

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,**

D I C H I A R A

Che il sistema classificato nella famiglia di prodotto **apparecchio elettrico d'uso domestico e similare – Cambiamonete/banconote,** finito di costruire e collaudare il ___/___/_____, identificato univocamente da:

Modello	Configurazione		Tipo	N° di Serie e/o matricola
	☐ **OryOne-S11**	☐ **OryOne-AH4**	☐ **Mini**	
Hira 2 CM	☐ **BillyOne-S11**	☐ **BillyOne-AH4**	☐ **Maxi**	– – – – – – – – – – – – –

Essendo realizzato conformemente al modello campione denominato Hira 2 Plus CM avente matricola (numero di serie) 0000003, finito di testare positivamente ai fini EMC e LVD (rapporto 7037CE-Hira2+CM.doc) il 10/06/2015, dalla STP S.r.l., con sede legale in via P.F. Andrelini, 42, 47121 Forlì (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 (CEI 61-150);
- CEI EN 60335-2-82 (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:
- L. 791 del 18 Ottobre 1977 e s.m.
- 2014/35/UE del 26 Febbraio 2014;

c)   in conformità ai requisiti essenziali di sicurezza della Direttiva Compatibilità Elettromagnetica:
- D.Lgs. 194 del 06 Novembre 2007.
- 2014/30/UE del 26 Febbraio 2014;

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

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

Fabrizio Alberici

Il Presidente

Alberici

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