

BILLYONE UN1 Banknote validator (ARM3)

ccTalk-Pulse+USB / MDB

Operator's Manual

Rev. 1.03



Operator's Manual



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NOTICE

Every possible care has been taken in the preparation of this manual.

Nevertheless, there is no guarantee at all times the absolute correspondence of the descriptions contained in this manual, with the characteristics of the product. The Alberici S.p.A. and disclaims any responsibility towards the user with respect to damages, losses, or claims of third parties, arising from use of the product or caused by misinterpretation of this manual.

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STORICO REVISIONI			
Revisione n°	Data	Modifica	Note
Creazione	14.06.17		
v.1.01	03.11.17	MDB su ARM 3	
v.1.02	18.12.17	Configurazione parallela in modalità PULSE / Nuova IF ccTalk	
v.1.03	14.05.18	Procedura calibrazione	

1. General

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 BILLYONE UN1 note validator.

1.1 Host machine design

- The manufacturer takes all possible measures to ensure the quality of this unit. However, performance decay or circuit faults could occur at the end of the product's life. Please ensure safety operation by making use of fail-safe design procedures.
- Please allow enough space around the validator to ease removal of the unit or collection of the banknotes.

1.2 Mounting

- Do not obstruct the acceptor's air intakes or else proper cooling will not be possible
- Do not use the acceptor in extreme or widely changing temperature
- Do not expose the acceptor to direct sunlight or to incandescent lighting (> 3000 Lux)
- Do not use or store the acceptor in dusty areas or in presence of chemical vapours or sprays
- The acceptor is for indoor use only. Do not use it outside.
- When using the acceptor in presence of car exhausts or smoke, please clean and maintain the acceptor often and regularly.

1.3 Wiring

- Switch power supply off before connecting or disconnecting any cables.
- When wiring the connection cable, pay utmost attention to the specified power range and pin assignment. Wrong wiring may cause unit damage.
- Connect the power cable firmly.
- Do not pull or stretch the power cable.

1.4 Caution

- When opening the Upper/Lower lid, disconnect power to the acceptor.
- When closing the Upper lid, do not put your fingers through.
- Do not modify the unit. Doing so may damage the product.
- Do not bump or drop the acceptor.
- Do not wipe or clean with thinners or organic solvents.
- Do not let moisture or liquids into or onto the acceptor.
- Do not use the acceptor outside the temperature / humidity range.
- The following banknotes might not be properly accepted, or might jam or damage the unit:
 - a. Stained, worn, moistured, torn or wrinkled banknote
 - b. Dog-eared banknotes
 - c. Banknotes with incorrect cut dimensions or printing displacement
 - d. Oil-smearred bills or with foreign bodies (i.e. sticking tape, a.s.o.)

1.5 Disposal

- Dispose of this unit according to your Country's regulations for such types of industrial waste. This product is RoHS-compliant.

2. Package contents

The package contains the following items:

1. BILLYONE UN1 note validator
2. Installation manual (this manual)

This unit has been carefully packed, with special attention to protect it against damages. However, if you find anything damaged or missing, please contact immediately your local distributor. Upon reception, please open the box and check for eventual damages, deficiencies or abnormalities, and in such case immediately report it to the forwarder and on the collection receipt.



3. Product description

Model: BILLYONE UN1

Protocol: ccTalk (non-encrypted / Pulse / MDB + USB port)

Version HW: 3.00 (*)

Versione FW: u2 1 A3.0.6 (*)

Mechanical Revision RM: 2.0.0

Power supply: +12V o +24V

Current draw: 0,4 A (max. 1.0A)

CCTALK

BILLYONE

Alberici®
CASH SOLUTIONS
WWW.ALBERICI.NET

Fw: μ 2.1 p3.0000
PB: EU.1.01.B
0,4mA (max 1.0A)
DC 12V / 24V
Hw: 2.00-00
Rm: 5.2.0

PUSH BUTTON
TO REMOVE

NOTE	5€	10€	20€	50€	100€
OUTPUT	5€n	10€n			

CE RoHS

LB0-1000654 2014

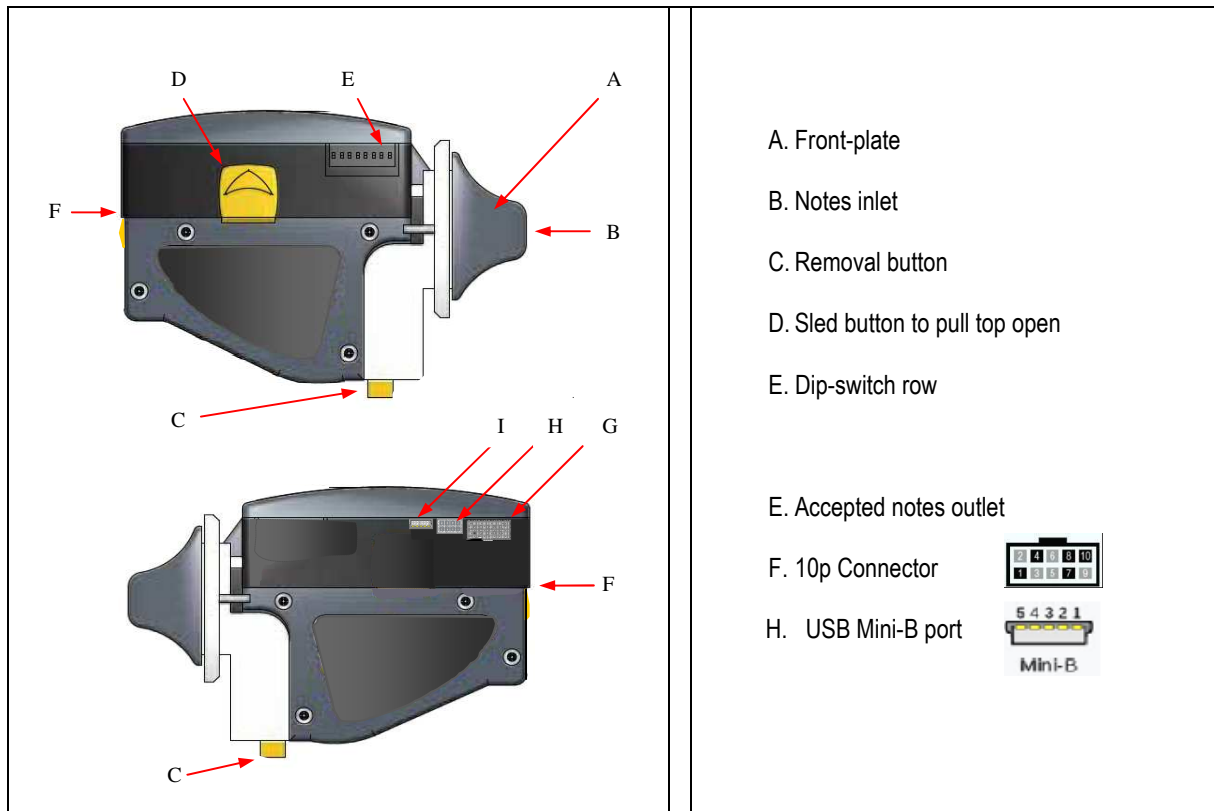
The label shows the data listed above, updated to the present versions of FW and HW.

The serial number shows the product identifier 'LB0', followed by the progressive production nr, made up of 7 digits. Example: LB0-0000012.

Default currency is the Euro. Please ask in advance for different needs (see Appendix 1).

(*) to-date: 03.11.2017

3.1 Parts description

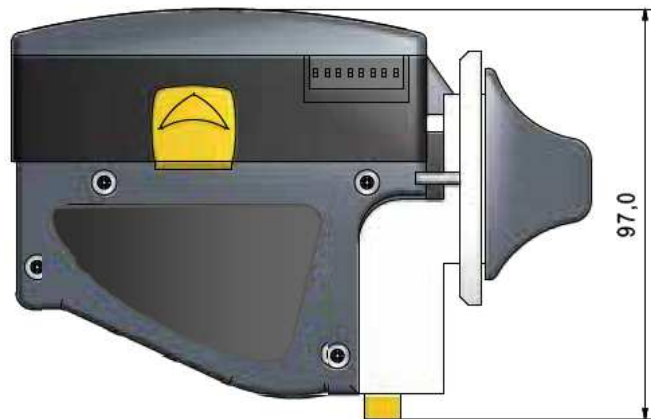


3.1 Technical Specifications

ALIMENTAZIONE / POWER SUPPLY	12V / 24V $\pm 5\%$
ASSORBIMENTO / CURRENT DRAW	200 mA (stand-by) 400 mA (work cycle, max 1 Amp)
PROTOCOLLI / INTERFACE	ccTalk / Pulse + USB mini-B / MDB (§)
TASSO DI ACCETTAZIONE / ACCEPTANCE RATE	92% = alta sicurezza / high security setting 98% = sicurezza standard / standard security setting
TECNOLOGIE DI RICONOSCIMENTO / SCAN TECHNOLOGY	Trasparenza e riflessione (sensori IR e sensori cromatici) VHR VHR transparency and reflection (IR and colour sensors)
VELOCITÀ DI VALIDAZIONE / VALIDATION SPEED	2 sec ca. (4 versi) / approx. 2 sec (any of 4 directions)
BANCONOTE COMPATIBILI / BANKNOTE SIZE	62 - 82,5 mm (larghezza/width)
TEMPERATURA DI UTILIZZO / OPERATING TEMPERATURE	0°C ÷ 50°C (senza condensa/without condensation)
TEMPERATURA DI MAGAZZINO / STORAGE TEMPERATURE	-10°C ÷ 60°C (senza condensa/without condensation)
PESO / WEIGHT	0,565 Kg

(§) The USB output is not available on the MDB version.

3.2 Dimensions



Left sideview



Face view



View from top

N.B.: All measures in mm

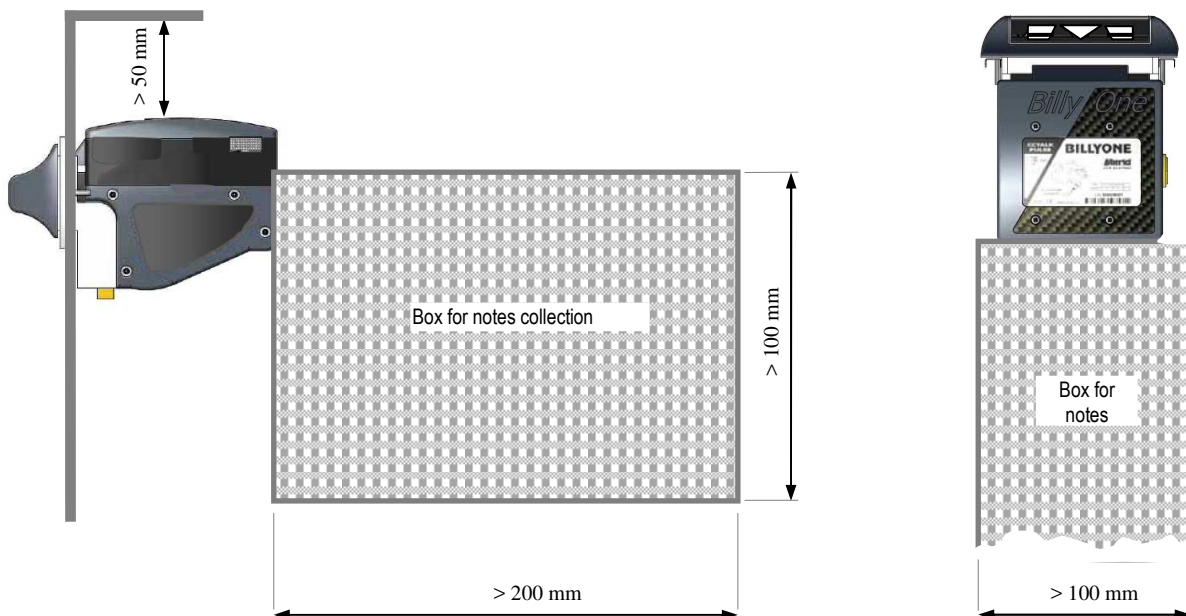
4. Mounting instructions

4.1 General

Installation	Preferably indoors; always integrated into cabinets suited to the place of use.
Positioning	Positioning Level mounting on plate (protected against vibrations and shocks). Allow at least 50 cm free space on the device, in order to operate with ease when opening or removing it. Leave the back of the device free from obstacles, not to hinder accepted notes.
Notes stacker	Notes stacker
Light	Prevent direct sunlight from hitting the inlet: use incandescent lamps in the working environment. Gradient of incidence of the light: $> / = 15$ degrees.

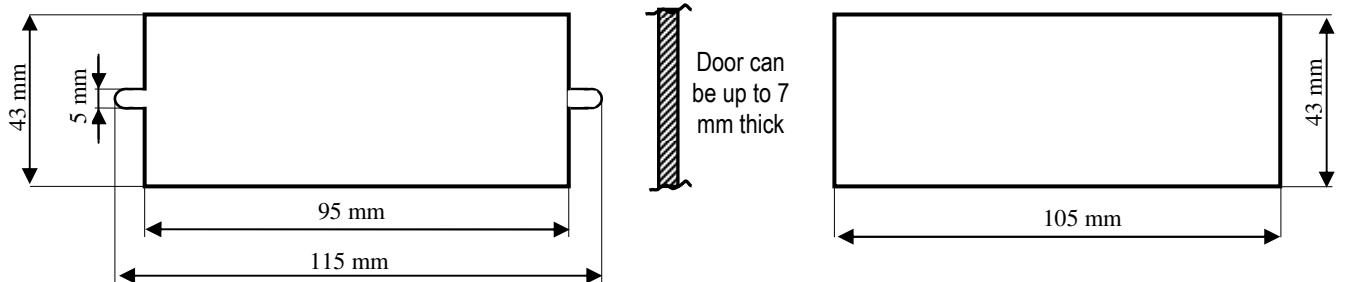
The collecting box for the accepted notes should be placed behind the device and below his lower profile. Its recommended minimum size is:

- min. 100 mm useful height,
- min. 100 mm in width, and
- min. 200 mm in length.

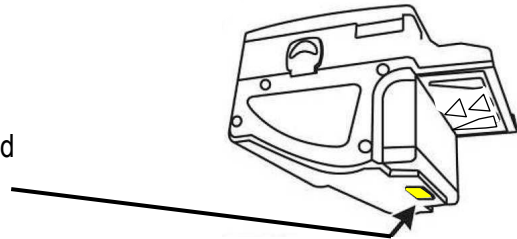


4.2 Mechanical fitting

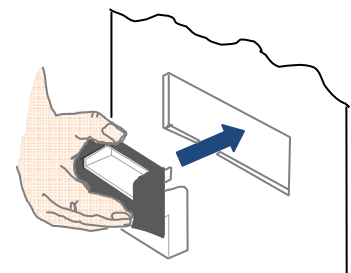
1. Mounting panel must be up to 7 mm thick.
Cut out a window as shown in figure below, size 43mm (height) x 95mm (width).
Even a simple rectangular cut-out of 43mm (height) x 105mm (width) will do.



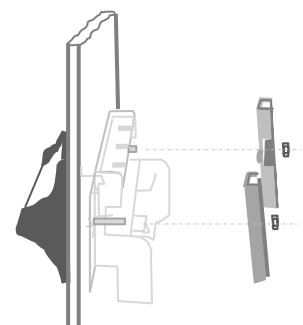
2. To release the main body from the front plate, press the yellow button C (see page 6), located under the validator, and slide the validator body backward until it comes out.



3. Remove from the front plate the two hex nuts holding the two fixing brackets.
Fit the front plate in the window provided on the panel (see point 1).



4. Fasten the front plate to the door by the 2 fixing brackets and their fixing nuts.
Take care not to tighten the nuts too much.



7. Insert the inlet of the note validator in the cut-out, and push the unit frontward, until it hooks in.
Make sure that the validator and its bezel are securely fixed to the door.



To remove the device, perform the above procedure from end to start.

4.3 Electrical connections and settings of the unit

The BILLYONE UN1 validator is designed for 12 Vdc or 24 Vdc power supply: it recognizes which voltage is available, and adjusts its circuit automatically. Once connected, take care that the cable is protected against any mechanical stress or accidental pull.



4.3.1 Connection wiring

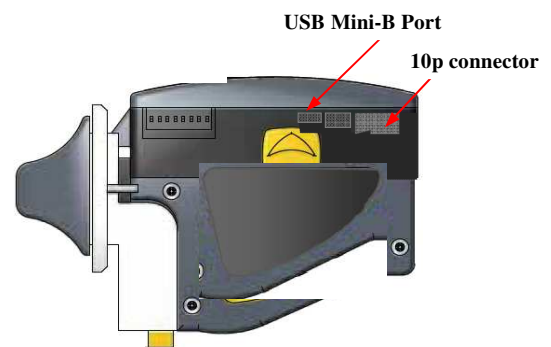
Make use of quality components complying with the current draw values, as for example:

Socket	IDC socket	Socket for flat cable
Wire	AWG24 (UL1061)	Flat cable, pitch 1,27 mm - AWG28 (UL2651/UL20012)

To connect the validator to the machine board:

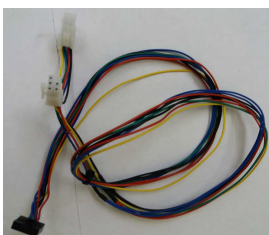
1. Make sure the power is off.
2. Insert the cable into the 10p connector.
3. Turn on the power and test for correct operation.

Or else connect the the note reader **through the USB Mini-B port**. The note reader must be set to **ccTalk protocol**.

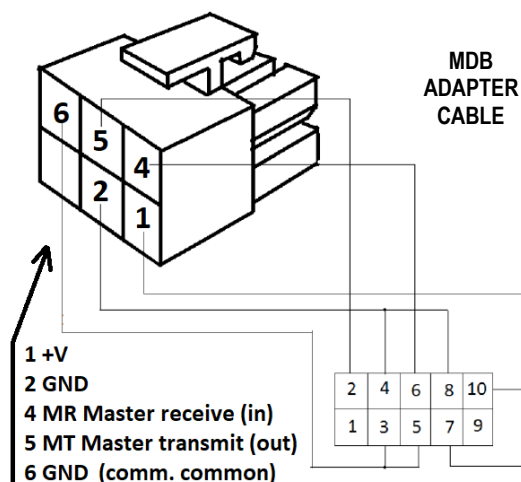


4.3.2 MDB 10p pin-out to 6p plug

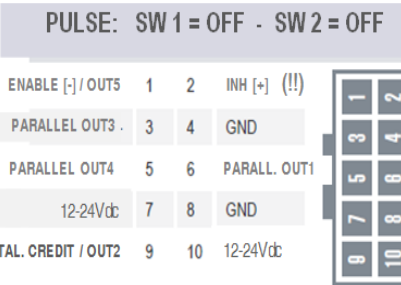
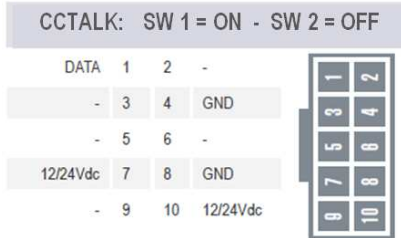
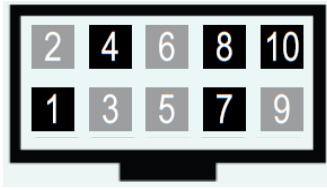
When setting the reader for MDB protocol (see 4.3.4 Dip-Switch Settings), it might be necessary to adapt the 10p outputs to the 6p cable from the master Board of the machine. The drawing here aside shows the connections between the 10p socket pins to the 6p plug:



The MDB connection cable can be ordered by the # nr. S-031005-000.

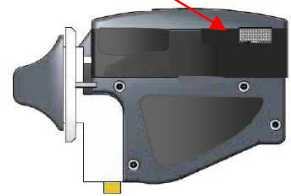


4.3.3 10 Pin interface connector



The 10p connector, for connection to the machine Master board, is located at the right side of the BILLYONE UN1 note reader.

10p connector



Pin	Signal	Function	Pin	Signal	Function
1	CCT	CCT Data (active low)	6	NC	Not connected
2	NC	Not connected	7	Vcc	+ 12 / 24 Vdc (Power supply)
3	NC	Not connected	8	Vss	GND (Power supply)
4	NC	GND	9	NC	Not connected
5	NC	Not connected	10	Vcc	+ 12 / 24 Vdc (Power supply)

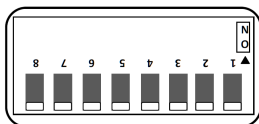
Pin	Signal Total. / Paral.	Funzione: Totaliz. / Parallel	Pin	Signal Total. / Paral.	Funzione: Totaliz. / Parallel
1	(!) ENABLE - / PARAL. OUT5	Enable=GND / Parallel 100 €	6	PARAL. OUT1	(active Low) Parallel 5 €
2	VOID / (!!) INH +	VOID / Inhibit = +3V÷30V	7	Vdc	+ 12÷24 Vcc / + 12÷24 Vcc
3	PARAL. OUT3	(active Low) Parallel 20 €	8	GND	GND / GND
4	GND	GND / GND	9	TOTALIZER / PARAL. OUT2	(active Low) Credit pulse / Paral. 10 €
5	PARAL. OUT4	(active Low) Parallel 50 €	10	Vdc	+ 12÷24 Vcc / + 12÷24 Vcc

- (!) PULSE TOTALIZER: if pin1 = GND ---> validator is enabled. If pin1 = floating or +3V÷30V ---> validator is disabled.
 (!!) PULSE PARALLEL: if pin2 = floating or GND ---> validator is enabled. If pin 2 = +3V÷30V ---> validator is disabled.



Pin	Signal	Function	Pin	Signal	Function
1	NC	Not connected	6	TX +	Tx (Active low)
2	RX +	Rx (+V MDB)	7	Vcc	+ 12 / 24 Vdc (Power supply)
3	RX -	Rx (Active low)	8	Vss	GND (Power supply)
4	GND	GND	9	NC	Not connected
5	TX -	Tx (0V MDB)	10	Vcc	+ 12 / 24 Vdc (Power supply)

4.3.4 Dip-switch row and unit setting

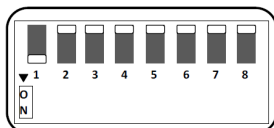


The Dip-Switches allow to set the communication mode (interface protocol) and other useful features. The DS row is located on the left side of the validator.

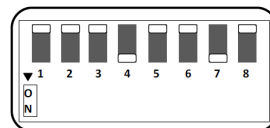
BEWARE! The functions that can be set by Dip-Switch in the BillyOne UN1 do not correspond to the ones in the previous BillyOne generation.

Examples of how to set the communication interface by DS5, DS6, DS7

Ex. 1: for operation in ccTalk mode, move the dip-switch 1 to ON:



Ex. 2: for operation in Pulse mode, 1 € = 1 pulse, 200mA pulse length:



SW N°	DIP-SWITCH FUNCTIONS		
SW 1 e	SW 1	SW 2	Protocol Interface Mode
	OFF	OFF	Pulse
	ON	OFF	ccTalk
	SW 2	SW 2	
	OFF	ON	MDB
	ON	ON	SAS
SW 3	SW 3		Pulse communication modes
	OFF		Pulse Parallel Outputs (Out 1 = 5€, Out2 = 10€, Out3 = 20€, Out4 = 50€, Out5 = 100€)
	ON		Pulse Accumulator Output (see SW 4 / SW 5)
SW 4 e	SW 4	SW 5	Accumulator value (only for Pulse mode)
	OFF	OFF	5 Euro = 1 Pulse
SW 5	OFF	ON	5 Euro = 5 Pulses (1 Euro = 1 Pulse)
	ON	OFF	10 Euro = 5 Pulses (5 € disabled)
	ON	ON	5 Euro = 10 Pulses (1 Euro = 2 Pulses)
SW 6	SW 6		Acceptance rate / Anti-fake Security level
	OFF		!!!! Acceptance 98% = Standard security level !!!!
	ON		Acceptance 92% = High security level (false notes mode)
SW 7	SW 7		Pulse length (only for Pulse mode)
	OFF		100 msec. / 100 msec. (time ON / time OFF)
	ON		200 msec. / 200 msec. (time ON / time OFF) - re-programmable
SW 8	SW 8		Activation of Anti-Fraud signals
	OFF		Anti-fraud override enabled: first 3 attempts are signaled, + 2 attempts cause 15' inactivity, with yellow flashes (see note ** in Table "AF Modes")
	ON		Anti-fraud override disabled: the note gets rejected with no fraud attempt signals (see note *** in Table "AF Modes")

Please pay attention: after any change in the DS settings, power must be turned off and then on again, so that the validator can detect the set operation mode.

(*) The pulse length can be modified by the dedicated function available in the Alberici Upg programming software menu. Such programming software is available for download in our Website.

Table AF: ANTI-FRAUD OPERATION MODES

(**) Dip-Switch SW8 = OFF

Progressive attempt no.	Reaction of the Validator	Measure to be taken	Progressive attempt no.	Reaction of the Validator	Measure to be taken
1st	Remains in operation	-	4°	> error (sequence of 3 red flashes)	Switch off and then on
2nd	Remains in operation	-	After the 5th fraud attempt (3 yellow flashes), it is necessary to wait for automatic restore of service. Take care not to switch 3° the device off.		
3rd	> error (sequence of 3 red flashes)	Switch off and then on			

(***) Dip-Switch SW8 = ON

Any attempt at "fishing" will cause the note to be rejected, without showing any visible signal.

Solid yellow light

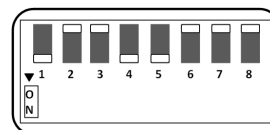
Error in ccTalk communication.
Check voltage level (12 or 24Vdc). Power the device off and on.

4.3.5 Enable/Disable programmed denominations

All the notes of the programmed currency are factory enabled. The denominations are stocked in the validator memory. It is possible to disable/re-enable one (or more) denomination(s) by following the steps described below:

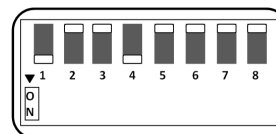
- *Disabling banknotes*

Move DS No. 1, DS No. 4 and DS 5 to ON position.
Turn power on: the front plate LED will light up white.
Insert the banknote that you want to disable. The LED will blink yellow 3 times when the note is returned, to mean that the note has been disabled. Insert the following banknote that you want to inhibit, or switch power off and on again.



- *Enabling banknotes*

Move DS No. 1 and DS No. 4 to ON position.
Turn power on: the front plate LED will light up white.
Insert the banknote that you want to enable. The LED will blink green 3 times when the note is returned, to mean that the note has been enabled. Insert the following banknote that you want to enable, or switch power off and on again.



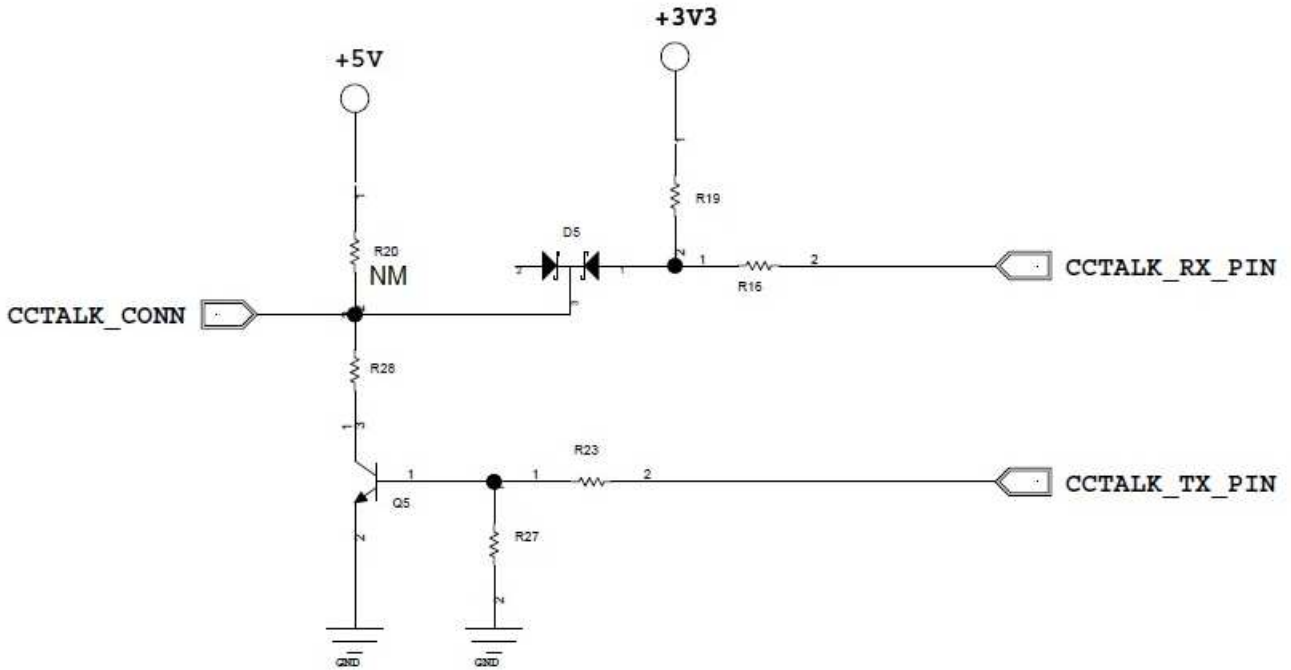
When finished, put all the DS in their original position (eg. for operating in ccTalk, all DS must be in OFF position).

NOTICE: enabled and disabled banknotes are signalled at device switch-on, depending on the number of coloured flashes from the faceplate LED.

The LED in the front panel flashes as many times as the total number of the programmed denominations; e.g., for the EURO, it flashes 5 times (1st flash = € 5 banknote, 2nd flash = € 10 note, 3rd flash = € 20 banknote, 4th flash = € 50 banknote, 5th flash = 100 € banknote). If the LED flashes green, the bill is enabled; if it flashes yellow, the note is disabled.

For example, if the denominations of 5, 10, 50 Euro are set to be accepted, and the denominations from 20 and 100 Euros are set to be inhibited, the 1st, 2nd, and 4th flashings will be in green colour, while the 3rd and 5th flashing will be in yellow.

4.3.6 ccTalk Interface circuit

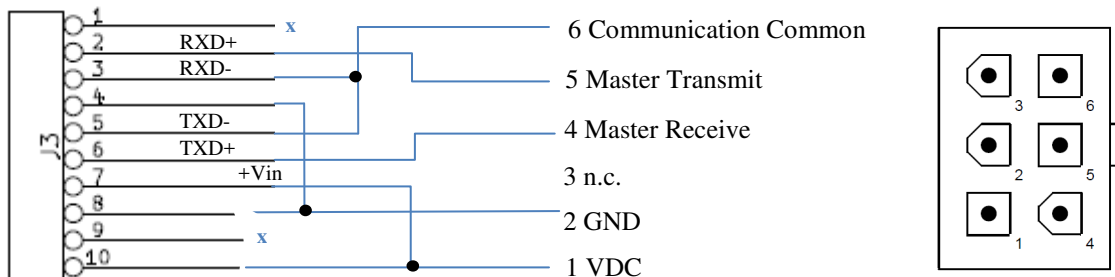


The BILLYONE UN1 operates by default with 16 bit CRC Checksum.
 To convert 16 bit to simple checksum (8bit), please make use of the Alberici Update Software
 (available on <https://www.alberici.it/eng/products/note-validators/without-stacker/billyone>).

Open the Options menu and set checksum as follows:

- 1) **OPTIONS:** choose and open **ADVANCED OPTIONS:** choose "Menu Tool: Enable all tools"
- 2) **TOOLS:** "Set device parameters" .. choose either "simple checksum" or "16-bit crc", then press OK.

4.3.7 MDB 10p output



La versione MDB supporta tutti i comandi MDB standard (Livello 1).

4.3.8 Supported ccTalk headers (16-bit Cyclic Redundancy Check) (Cyclic Redundancy Check)

Supported Specifications

CcTalk supported specifications list

1. cctalk Generic Specification Issue 3.2
2. cctalk Expansion for Bill Validators Issue 2.1

Supported Command Headers

CcTalk supported commands list

1. Core Commands

- Header 192 - Request build code
- Header 244 - Request product code
- Header 245 - Request equipment category id
- Header 246 - Request manufacturer id
- Header 254 - Simple poll

2. Core Plus Commands

- Header 001 - Reset device
- Header 004 - Request comms revision
- Header 241 - Request software revision
- Header 242 - Request serial number

3. Bill Validator Commands

- Header 145 - Request currency revision
- Header 152 - Request bill operating mode
- Header 153 - Modify bill operating mode
- Header 154 - Route bill
- Header 156 - Request country scaling factor
- Header 157 - Request bill id
- Header 159 - Read buffered bill events
- Header 197 - Calculate ROM checksum
- Header 213 - Request Option flags
- Header 216 - Request data storage availability
- Header 227 - Request inhibit status
- Header 228 - Modify master inhibit status
- Header 230 - Request inhibit status
- Header 231 - Modify inhibit status
- Header 247 - Request variable set

5. Messages

5.1 Error red and yellow flashes:

The number of red flashes emitted from the front plate allows to check the possible reason for malfunction.

N° of red flashes	Description
1	Validator is open
2	Jammed banknote
3	Fraud attempted
5	Adjust optics
7	-
9	Low power supply
11	Check encoder+motor efficiency
12	-
14	ROM error

If ccTalk communication drops off, the validator face led will lit up solid yellow:

Solid yellow light	Error in ccTalk communication. Check voltage level (12 or 24Vdc). Power the device off and on.
---------------------------	---

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 to operate in a "soft" mode (* DS8 = ON) or in "extended" mode (** DS8 = OFF).

(*) Dip-Switch SW2 ON

Any attempt at "fishing" will cause the note to be rejected, without showing any visible signal.

(**) Dip-Switch SW2 OFF

Attempt	Validator reaction	Do as described below
1°	Remains in service	-
2°	Remains in service	-
3°	> error (3 red flashes)	Reset (switch off then on)
... n° ...	> 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.

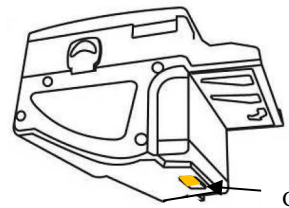
NOTICE: no error status is communicated to the machine, so that the latter does not go out of service, and then continue to maintain the other functions working.

6. Maintenance

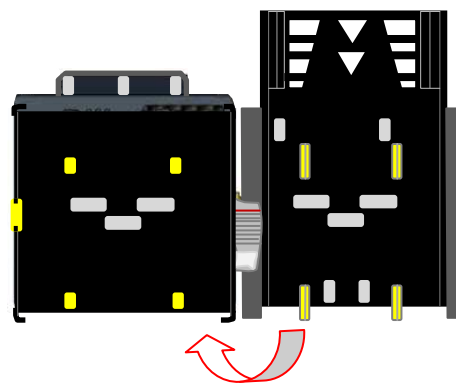
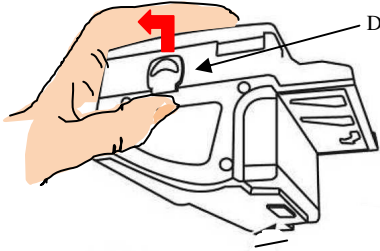
6.1 Manual cleaning

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 that you **clean these parts at least monthly**, as indicated below.

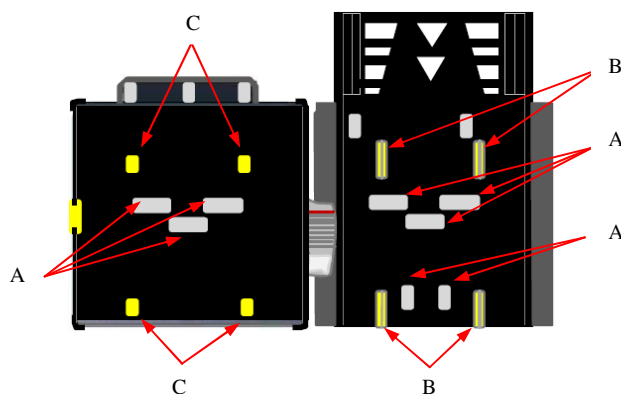
1. Turn off the power and unplug the cable from the 10-pin connector interface. Press the yellow button C, located under the reader, to release the main body from the faceplate, and slide it backwards.



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*.



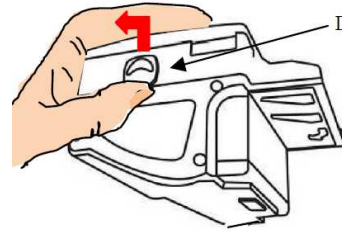
PAY ATTENTION: do not use organic detergents (ex. alcohol, thinners or petrol). Use only isopropyle alcohol.

- A. Sensors
- B. Rollers
- C. Elastic matching wheels

6.2 Jammings

CAUTION! Turn off power before opening its upper lid.

Open the top cover by pressing D, as described in section 6.2.1 (point 2), and pull out the stuck banknote (as well as any other objects that will hinder the transit).



7. Calibration

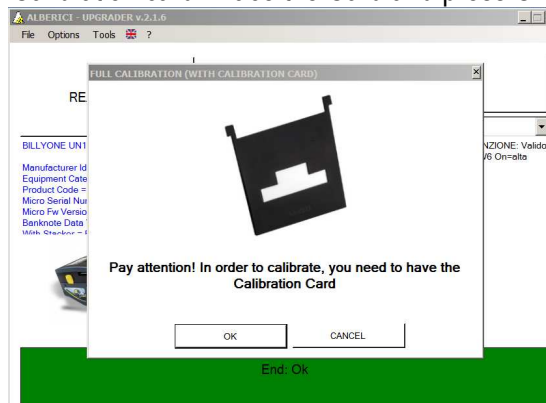
Calibration should be carried out when acceptance rate decreases substantially, and/or after thorough cleaning of the note validator and particularly of its optic sensors glasses.

Full Calibration requires usage of the Alberici Calibration Card (AA-0245). A more basic calibration (Partial Calibration) can be carried out as well without such Card.

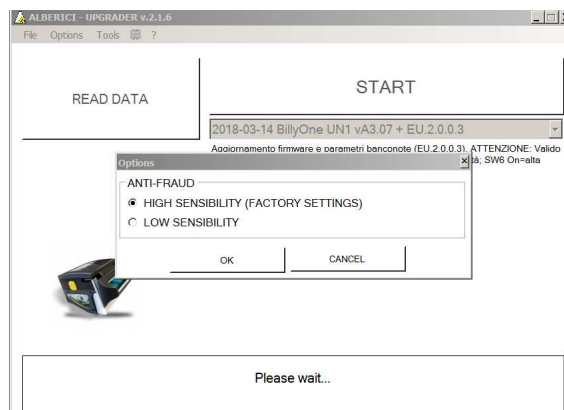
Open the Tools Menu and select 'Calibration', then 'Full Calibration' or 'Partial Calibration'.

Full Calibration :

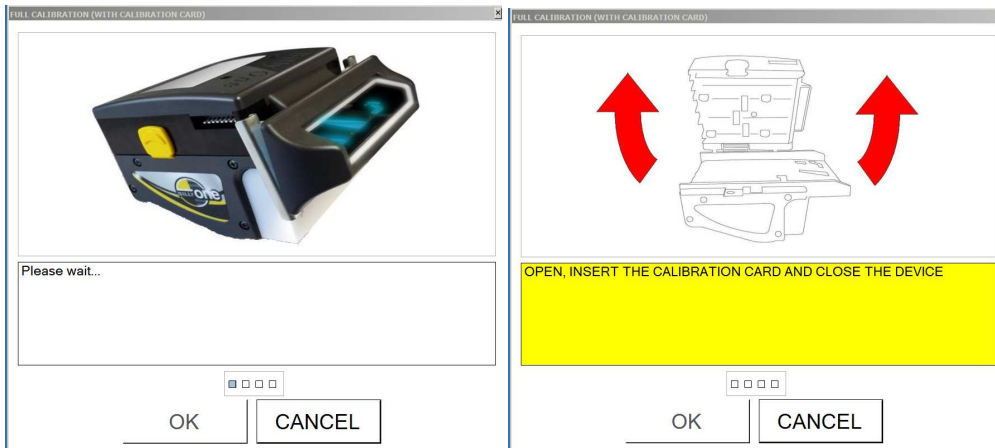
you will be prompted to use the Calibration card. Place the Card and press OK.



If the 'Enable advanced functionalities' box in 'Options/Advanced' has been ticked, the program will ask to choose between High Sensibility (factory default) and Low Sensibility. Tick the desired choice, then OK.



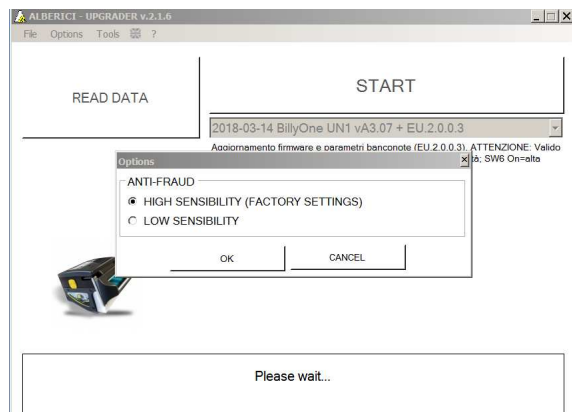
Once made your choice, or straight away if the 'Enable advanced functionalities' box has not been preset, calibration will start. If the card is not in, the system will remind you to insert it and restart the process:



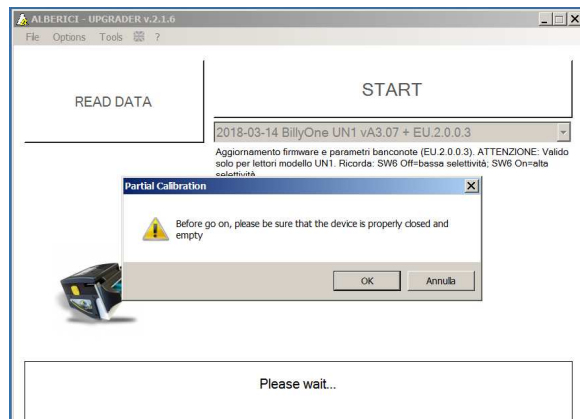
Once positioned the Calibration Card, press OK button and wait until confirmation of process ended.

Partial Calibration:

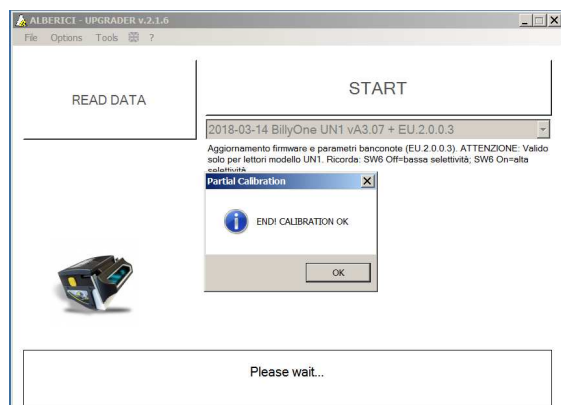
If the 'Enable advanced functionalities' box has been ticked in the 'Options/Advanced', the program will ask to choose between High Sensibility (factory default) and Low Sensibility. Tick the desired choice, then OK.



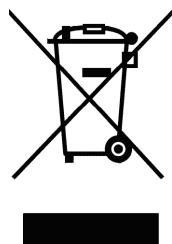
Once made your choice, or straight away if the 'Enable advanced functionalities' box has not been preset, you will be reminded to check that the validator is empty and closed.



Press OK: shortly after, the program will confirm the end of the Partial Calibration:



8. 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 dised 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.

Ref.: D. Lgs. 151/2005 – Directive 2002/96/EC

9. Terms of Guarantee

The manufacturer will fix malfunctions arising from production faults in this device or its parts 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 item 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 will be considered automatically expired if outer and inner labels are missing.

Transport costs of repaired products are at the Customer's charge.

10. 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.

Appendix 1: List of available currencies (at 04.11.17)

AUSTRALIA	Dollar	ISRAEL	Sheqalim
BULGARIA	Lev	POLONIA	Zloty
CROATIA	Kuna	ROMANIA	Leu
CZECH REPUBLIC	Kruna	RUSSIA	Ruble
DENMARK	Krona	SWEDEN	Krona
EUROPEAN COMMUNITY	Euro	SWITZERLAND	Swiss Franc
HUNGARY	Florint	UNITED KINGDOM	Pound Sterling

Please contact us for any further currencies that you may need



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 – Lettore di Banconote Billy One**, identificato univocamente da:

Modello	Configurazione	Tipo	N° di Serie e/o matricola
BILLYONE	<input type="checkbox"/> ccTalk <input type="checkbox"/> MDB <input type="checkbox"/> Pulse	<input type="checkbox"/> 12 Vdc <input type="checkbox"/> 24 Vdc	-----

essendo realizzato conformemente al modello campione denominato LB-LC01 avente matricola n° LB-LC01 (00)00000009/2013t, finito di testare positivamente ai fini EMC e LVD (rapporto 6634CE-BILLYONE.doc) il 18/11/2013, 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 (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:
- 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 ___/___/_____

Felizio Alberici

Il Presidente

Alberici S.P.A.

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

Via Ca' Bianca 421, 40024 Castel San Pietro Terme (BO), Italia

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E-mail: info@alberici.net – Url: <http://www.alberici.net>







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Design and manufacture of payment systems, accessories for videogames and vending machines

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