Timebox B ACS 2-line pay-for-time system with cashless

Operator's manual

Rev. 1.00





User Manual

CE



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NOTA

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This manual has been prepared with the utmost care. Nevertheless, it is not possible to assure at any time the exact correspondence of the descriptions to the product features. Alberici SpA shall not be held liable by the User for any damage, losses, or third party claims arising from any uses of the manual or of the product.

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STORICO REVISIONI				
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Dear Customer,

we would like to thank you and congratulate for your choice. We trust that you will appreciate the quality and performace of the Alberici TIMEBOX S. The data exchanged under MIFARE® encryption are then processed through cctalk protocol, the serial communication mode that provides security and precision.

Please read carefully this handbook, to obtain the most from your TIMEBOX S Unit

Please pay due attention to the following warnings:



IMPORTANTE NOTICE REGARDING USER'S SAFETY AND PROPER OPERATION OF THIS UNIT



IMPORTANTE NOTICE REGARDING DANGERS ARISING FROM RISK OF ELECTRICAL DISCHARGE

IMPORTANTE NOTICE REGARDING DANGERS ARISING FROM RISK OF HIGH TEMEPRATURE



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GENERA L NOTE

1. Package content

The set includes:

- 1. Timebox ACS unit
- 2. This manual
- 3. Requested optional items (RFID keys, ACR programmer interface)

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

2. Product description

2.1 Intended use

The TIMEBOX allows to purchase any of the two available pay-for-time service. Time is purchased by introducing coin(s), then choosing the desired service by pessing the relevant onboard button keys. Price and time for service can be set at any time, by entering the programming section of the menu.

The unit can be installed outdoor, provided it is located in a position conveniently sheltered from unfavourable weather conditions.

2.2 Available functions

- Payment and independent activation of 2 service lines

- Accounts audits on display (access to Audits by internal pushbuttons or Master/Service Keys))
- Ad libitum Custom configuration of price and time (access modifications by internal pushbuttons or Master Key)

Size:	125 mm x 116mm x 390 mm
Weigh:	5,50 Kgs.
Power supply:	230V o 24Vca o +24Vcc o 12Vcc (must be specified when placing the order)
Highest current at relay contacts:	8 Amps
Working temperature:	$+10^{\circ}C \div +50^{\circ}C$ (humidity $10\% \div 70\%$ non-condensed)
Installation:	Wall-mount, indoor or outdoor (sheltered against water, sprays, direct sunlight
Components:	
Coin acceptor	AL66V cctalk
Control board	Active One
Interface service board	Alberici Servo MKII
Cashless Reader	ACS Alberici RFID MIFARE® reader and charger

2.3 General Data

2.4 Caution



- 1 Comply with the instructions in this manual
- 2 Switch power off before any maintenance operation
- 3 Use only within the recommended temperature/humidity range
 - 4 Do not expose the machine to direct sun light,
- 5 Do not favour contact with dusts or chemical moisture or sprays, water or other liquids
- 8 Wipe clean by a dry piece of cloth (or slightly wet with alcohol)
- 9 Do not use thinners or organic solvents

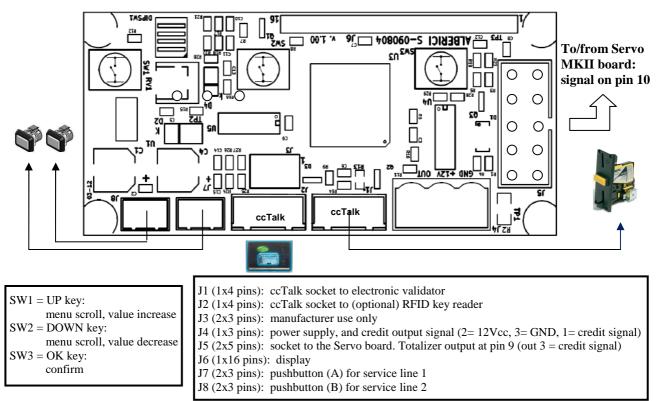
3. Size



4. Electrical connections

Electrical cables must not be powered during installation!

The TIMEBOX B is available for 4 different power supplies: 230Vac, 24Vac, 24Vdc, 12Vdc. When placing your orders, please specify which presetting you need: the interface Servo-board shall be prepared accordingly.



4.1 Active One control board

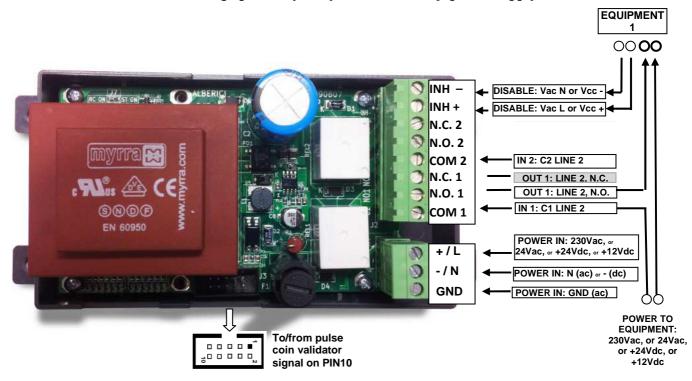
4.2 Servo-control board

A 10p flat cable connects the Active One control board to the Servo-board.

Power the Servo-board by the 3p socket J1, according to the following pattern:

	230 Vac	24Vac	24Vdc	12Vdc
Pin 3:	line 230Vac	line24Vac	+24Vdc	+12Vdc
Pin 2:	neutral	neutral	0Vdc	0Vdc
Pin 1:			GND	GND

4.2.1 Connections to start the equipment by relay transmission of power supply:



Service line 1 (Pushbutton A): from power supply, connect one end of service line 1 straight to the relevant actuator (i.e. electrical motor, solenoid, a.s.o.). Connect the other end to pin 1 (COM 1) of J2 connector.

If operation mode is "normally open", take the switching wire to the 1 actuator from pin 2 (N.O. 1). These wires must be able to sustain 10 Amps current draw.

If operation mode must be "normally closed", take the switching wire to the actuator from pin 3 (N.C. 1).

If the actuator works by d.c., take care to connect properly positive and negative poles!

Service line 2 (Pushbutton B): from power supply, connect one end of service line 2 straight to the relevant actuator (i.e. electrical motor, solenoid, a.s.o.). Connect the other end to pin 4 (COM 2) of J2 connector.

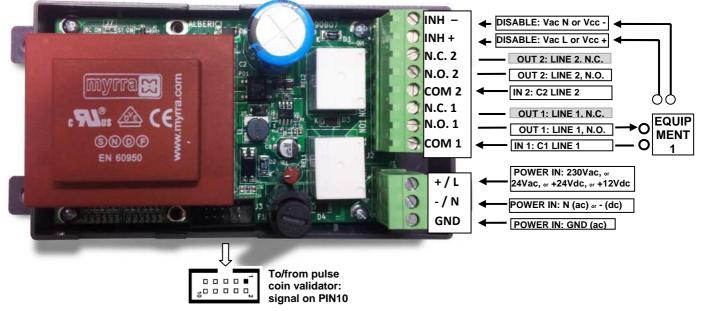
If operation mode is "normally open", take the switching wire to the 2 actuator from pin 5 (N.O. 2). These wires must be able to sustain 10 Amps current draw.

If operation mode must be "normally closed", take the switching wire to the actuator from pin 6 (N.C. 2).

It is possible to disable coin acceptance in any of the following two ways:

- a) Electronically Pins 7/8 of green connector J2: provide any Vdc (+) or Vac (line value) to pin 7, and respectively 0Vdc (-) or Neutral Vac to pin 8.
- b) Mechanically move to OFF the dip-switches located on the coin acceptor. Move them back to ON when you want to resume coin acceptance.

Connections to start the equipment by one clean relay switch:



Service line 1(Pushbutton A): from pin 1 (COM 1) of the J2 connector, take a wire to the actuator of service line 1. If operation mode is "normally open", take the switching wire to the 1 actuator from pin 2 (N.O. 1). If operation mode must be "normally closed", take such wire from pin 3 (N.C. 1).

Service line 2 (Pushbutton B): from pin 4 (COM 1) of the J2 connector, take a wire to the actuator of service line 2. If operation mode is "normally open", take the switching wire to the 2 actuator from pin 5 (N.O. 2). If operation mode must be "normally closed", take such wire from pin 6 (N.C. 2).

It is possible to disable coin acceptance in any of the following two ways:

a) Electronically - Pins 7/8 of green connector J2: provide any Vdc (+) or Vac (line value) to pin 7, and respectively 0Vdc (-) or Neutral Vac to pin 8.

b) Mechanically - move to OFF the dip-switches located on the coin acceptor. Move them back to ON when you want to resume coin acceptance.

5. Operation

5.1 Getting started

Switch the machine on: the display will lit on and will show the following message:



The machine is ready to operate by the following default set values:

Line 1:	price of service = 0,50 €	Line 2:	price of service = 0,50 €
	pulse length $= 30 \text{ sec}$		pulse length $= 30 \text{ sec}$

The Timebox B is able to simultaneously control two independent pay-for-time service lines, having different price and time length. When introducing one coin or the RFID key, the corresponding credit will be displayed. If such amount is enough to activate at least one of the two service lines, this one (or both of them) shall be proposed, and the relevant pushbutton light will change from blue to green colour.

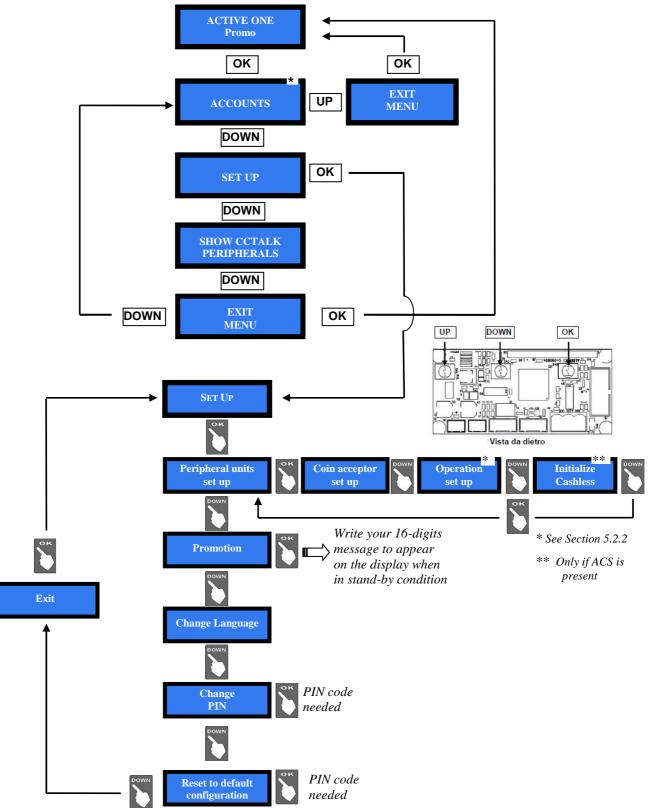
When pressing the button for service line A (or service line B), the display will show briefly paid amount and total time, then the relevant relay will switch on, and remain on, for the set time. The display will show the progress of the countdown, and the pushbutton will be blinking until end of service time.

If it has been introduced a larger amount than the price for the service, the proportionally larger activation time shall be displayed and activated.

5.2 Modifying the Menu data

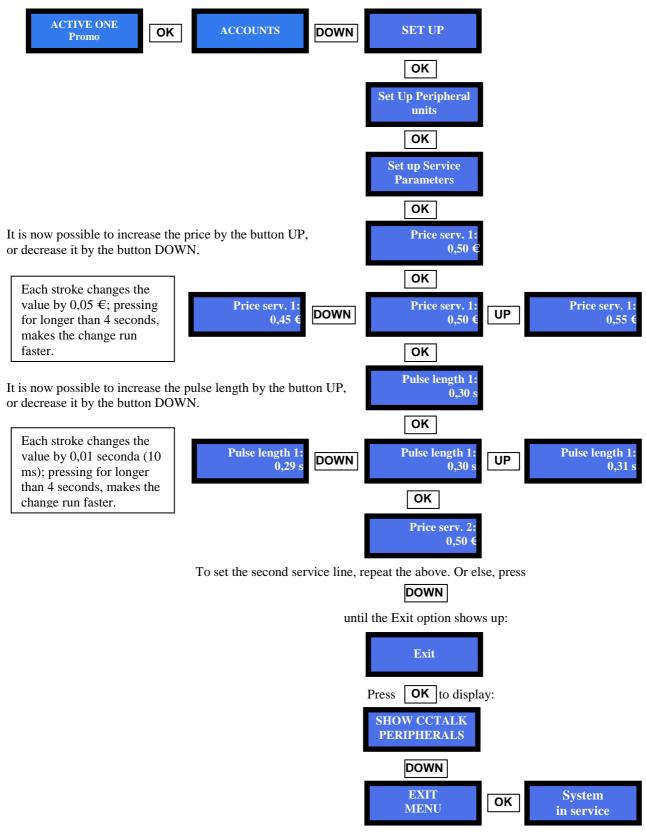
5.2.1 Menu configuration

The unit provides a full interactive and user-friendly menu: access it by the button OK, then scroll it by DOWN or UP.



5.2.2 Setting operation parameters

To change price and length of the services, use the buttons behind the board or any of the Management Keys:



6. **Operation**

6.1 Activating the service

Keys with sufficient credit:

Introducing an RFID key charged with sufficient credit, or as many coins as to reach the requested amount, the button blue light turns to green, indicating that the system is ready. The display shows the credit contained in the key:



Press the button once: the trigger pulse is sent to the control board, while the button flashes yellow. At the ssaame time, the display will show for 5 seconds the credit remaining in the stick.



Each pressure of the button sends one signal to the control board, and one credit is taken off from the amount in the key.

Keys with sufficient credit:

Introducing an RFID key charged with insufficient credit, the following message shows up:

Credit 00.00€ Insuff. Credit

changing to:



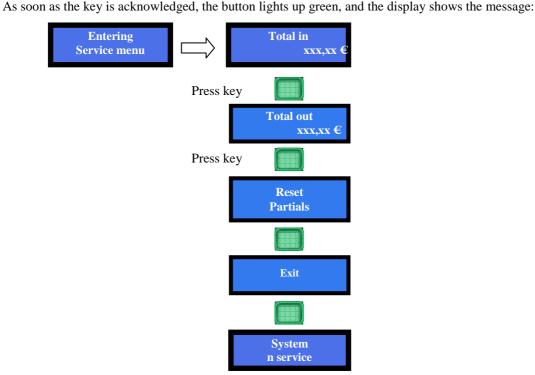
In this case, the key can be recharged by inserting coins in the coin acceptor, until the desired value, and then pressing the button. The display shows:





6.2 Control of Accounts

By the Service key or the Maste key it is possible to inspect the accounts.



The owner of the Service key can delete only the Accounts partials. The owner of the Master key can erase all Accounts data.

Accounts data can also be reset by the keys located behind the board (see. § 5.2).

7. Product disposal



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.

8. 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.

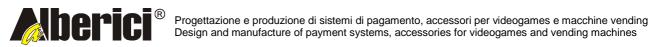
Transport costs of repaired products are at the Customer's charge.

9. 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.

NOTA

La Alberici S.p.A. si riserva il diritto di apportare modifiche alle specifiche tecniche dell'apparecchiatura descritta in qualunque momento e senza preavviso, nell'ambito del perseguimento del miglioramento continuo del proprio prodotto.



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