

## Cashless system

30

# EuroKey Plus

The payment system with transponder technology to make moneyless sales in any application.

Prepaid and rechargeable payment system resulting in customer loyalty and large application in different sectors.

It allows to set promotional campaigns and discounts, also by time schedule, to increase sales.

Available in MDB and Executive models, typically used in the Vending sector, and Parallel model to manage the electromechanical equipment for example in car wash plants, self-service laundries, sports and tourist premises.

For extra moist contexts, a version resistant to water steam with watertight seals is available.

Extremely versatile as it allows to use the same key on machines operating in different environments – Executive, MDB or Parallel.

Keys are extremely resistant and can be also soaked or walked over with no damage.

Keys are small sized and particularly eye-catching.

The system can be graphically customized by quantities.





Fig. 1



Fig. 2



Fig. 3



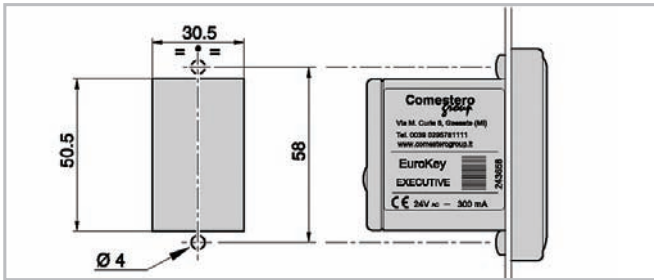
Fig. 4

Every system is identified by 3 codes specifying manager, location and machine where it is installed. Safety is ensured by the check made by the block on every key before starting distribution to make sure that the key has its own reference codes.

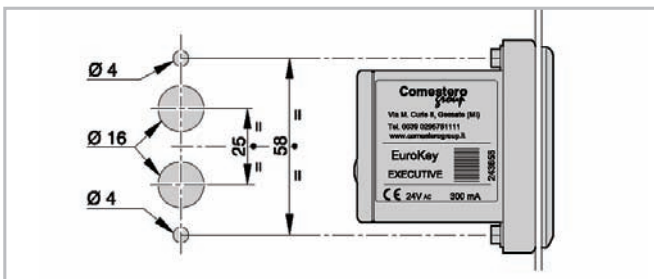
Keys take the identification codes of the block at the first introduction, therefore no pre-coding operation is required from the manager.

EuroKey Plus can be also installed on existing applications as it can be assembled on the rear of the panel using the front plate (Fig. 1) needing only 4 holes.

## Installation

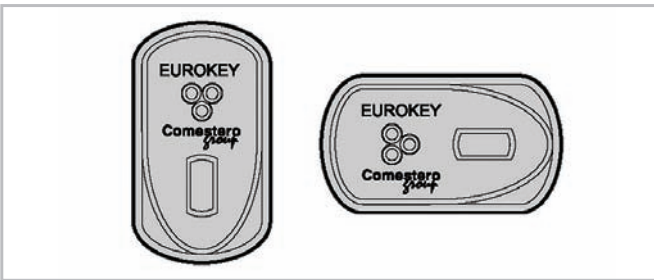


Front assembly (iron shearing machine)



Rear panel assembly (piercing template)

Different labels are available according to the assembly: vertical or horizontal (Fig. 2). Their material and design provide a pleasant aesthetic effect.



Vertical or horizontal assembly

The system can be connected, without requiring additional interfaces, to an electronic coin mechanism or a change giver validator and a banknote reader to recharge keys.

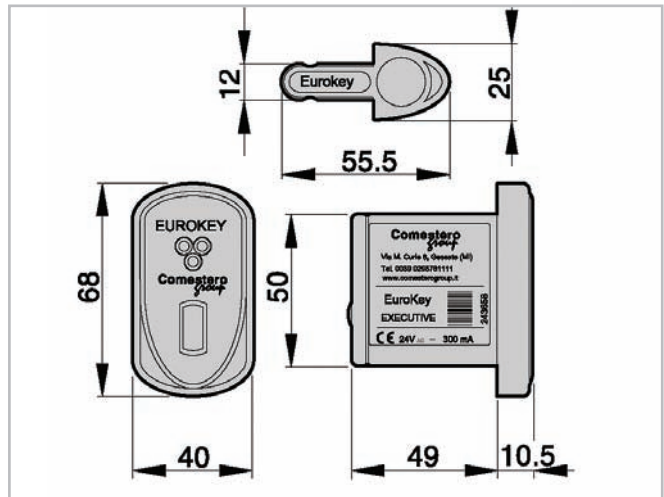
EuroKey Plus can be programmed directly on site on the host machine using the pc, Programmer (Fig. 3) or a "special" key.

Accounting is easy thanks to a quick data audit system. Data can be turned also in EVA-DTS format, the most commonly used by corporate management systems (for MDB version accounting is downloaded directly from the machine).

EuroKey Plus can be also installed on Changeuro SimplyCoin and MultiCoin, SimplyCoin Air and Autocoin Plus change machines (Fig. 4); this last model can also serve as key dispenser. If the cash collection is centralized in one point, any fraud attempt or vandalism is made impossible, collected amounts are safe and management operations simplified.

EuroKey Plus can be installed also on SimplyStart wash start system and on MultiService, Blue Box and Grey Box activation and control systems.

## Dimensions



## MDB Version



**Entra nel mondo di**

# **EUROKEY** *plus*

**CASHLESS SYSTEM**

→ **Look & Design**

→ **Tecnologia a Transponder**

→ **Scopri i numerosi vantaggi**



The ideal solution for MDB machines.

### General characteristics

Installed on those devices having an MDB serial communication protocol: EuroKey Plus is therefore subordinate to the host machine.

It can manage any payment system having an MDB connection.

The user key can be reconfigured by the manager as "special" key to offer free sales or to carry out maintenance tests.

### Configuration

The following parameters can be configured:

- max. value to be charged on the key;
- keys for free sales;
- maintenance keys;
- black list (list of disabled keys because lost).

### Options

- front plate;
- metal front plate;
- 24 Volt 16-pole adaptor;
- horizontal label;
- terminal for counter credit loading;
- USB kit: consisting of 1 board and 1 USB cable, it allows to connect EuroKey Plus directly to the pc without requiring any additional adaptor.

### Tools

#### KysOne

Software to carry out EuroKey Plus programming and configuration.



#### Programmer

Portable tool to program the key system directly on site.



# Eurokey Plus cashless system

## Executive Version

The model designed for Executive devices.

### General characteristics

Installed on machines having an Executive serial communication protocol.

It can manage an electronic coin mechanism and/or a banknote reader.

It has different types of key:

- red key, for system configuration;
- yellow key, to recharge user keys with no payment systems;
- user key, in different colours, that in addition to be used by the final user, can be reconfigured by the manager as "special" key to offer discounts, free sales or to carry out maintenance tests.

### Functionality

Price management can occur in 3 modes:

- executive: prices are set on the machine;
- price holding: prices are loaded on the key system;
- standard serial: prices are managed by both machine and key system.

It is possible to set up to 10 different price lines, for a total of 20 prices (10 for key payment and 10 for cash payment, in price holding and standard serial mode).

It is possible to convert the credits loaded on keys in a different currency.

### Configuration

Different parameters can be configured:

- single or multiple sale mode, in case of cash payment;
- happy hour;
- discounts;
- bonuses;
- max. value to be charged on the key;
- discount keys;
- keys for free sales;
- maintenance keys;
- black list (list of disabled keys because lost).

### Options

- red key;
- yellow key;
- front plate;
- metal front plate;
- 24 Volt 16-pole adaptor;
- horizontal label;
- terminal for counter credit loading;
- USB kit: consisting of 1 board and 1 USB cable, it allows to connect EuroKey Plus directly to the pc without requiring any additional adaptor.



## Tools

### KysOne

Software to carry out EuroKey Plus programming and configuration. It also allows to turn audit data into standard EVA-DTS format.



### Programmer

Portable tool to program the key system directly on site.



### Audit Box

Device to collect audit data.



# Eurokey Plus cashless system

34

## Parallel version



### General characteristics

Suitable to manage electromechanical devices; widely used in different sectors e.g. car wash systems, self-service laundries, sports and tourist structures.

Ideal to enable services e.g. portals, tracks, washing machines, drying machines, time light systems, showers, etc.

It allows customer loyalty thanks to bonuses and discounts also on time basis.

It can be directly connected to an electronic coin mechanism and a banknote reader for key recharge.

It has different types of key:

- red key, for system configuration;
- yellow key, to recharge user keys with no payment systems;
- user key, in different colours, that in addition to be used by the final user can be reconfigured by the manager as "special" key to offer discounts, free sales or to carry out maintenance tests.

Available in single and multi price version: single price version is ideal in small contexts where services have the same purchase value. Multi price version is designed for contexts requiring price diversification.

### Functionality

Capable of managing 1 price (single price version) or 2, 4 or 8 different prices (multi price version).

Used for electromechanical applications.

### Interfaces

- RM 925 board to interface 1 price (with built in power supplier);
- KPD/KPM boards to interface 2/4/8 prices.

### Configuration

3 different configurations are available for the single price version:

- single price stepper: the system starts the service and keeps it enabled as long as it receives a service end signal from the machine;
- stepper: the system gives the machine only an initial pulse to start the service;
- timer: the system starts the service and keeps it enabled for the pre-set time.

2 different configurations are available for the multi price version:

- multi price stepper: the system starts the service and keeps it enabled as long as it receives a service end signal from the machine;
- timer: the system starts the service and keeps it enabled for the pre-set time.

For both models the following can also be configured:

- "Start" button, to be used to start the service;
- single or multiple sale mode, in case of cash payment;
- max. value to be charged on the key; discounts; bonuses; happy hour; discount keys; keys for free sales; maintenance keys;
- black list (list of disabled keys because lost).

### Options

- display to signal the credit and the remaining time of service;
- red key;
- yellow key;
- front plate;
- metal front plate;
- 24 Volt 26-pole adaptor;
- horizontal label;
- terminal for counter credit loading;
- USB kit: consisting of 1 board and 1 USB cable, it allows to connect EuroKey Plus directly to the pc without requiring any additional adaptor.

## Tools

### KysOne

Software to carry out EuroKey Plus programming and configuration. It also allows to turn audit data into standard EVA-DTS format.



### Programmer

Portable tool to program the key system directly on site.



### Audit Box

Device to collect audit data.





Fig. 1



Fig. 2



Fig. 3



Fig. 4

## Technical characteristics

	<b>MDB</b>	<b>Executive</b>	<b>Parallel single price</b>	<b>Parallel multi price</b>
<b>System block</b>				
Dimensions (l x h x w) (mm)	88 x 60 x 40	88 x 60 x 40	88 x 60 x 40	88 x 60 x 41
Weight (g)	120	120	120	120
Power supply	18 ÷ 40 Vdc/24 Vac (-20 +10%)	18 ÷ 40 Vdc/24 Vac (-20 + 10%)	12 Vdc ± 5%	18 ÷ 40 Vdc/24 Vac (-20 + 10%)
Power supply for peripherals (output)	-	12 Vdc ± 5% 1,2 A (banknote reader); 12 Vdc ± 5% (coin validator)	12 Vdc ± 5% (coin validator)	12 Vdc ± 5% 1,2 A (banknote reader); 12 Vdc ± 5% (coin validator)
Connection	conformity to MDB standard	conformity to Executive standard	-	-
Input	30 mA	30 mA	30 mA	31 mA
Operating temperature	0 ÷ +50°C	0 ÷ +50°C	0 ÷ +50°C	1 ÷ +50°C
Humidity (non condensed)	0 ÷ 85%	0 ÷ 85%	0 ÷ 85%	1 ÷ 85%
Storage temperature	-10 ÷ +60°C	-10 ÷ +60°C	-10 ÷ +60°C	-10 ÷ +60°C
Inputs	-	TTL level	TTL level	TTL level
Outputs	-	open collector (non protected) 100 mA (common ground)	open collector (non protected) 100 mA (common ground)	via 2/4 channel interface boards (KPD/KPM)
<b>Key</b>				
Technology used	transponder	transponder	transponder	transponder
Transmission frequency	125 khz	125 khz	125 khz	126 khz

## Functionality

	<b>MDB</b>	<b>Executive</b>	<b>Parallel single price</b>	<b>Parallel multi price</b>
Price management mode	°	3	1	1
Sale prices	°	°°	1	2/4/8
Cash sale mode	°	single /multiple	single /multiple	single /multiple
Failed sale mode	2	2	2	2
Direct management of coin validator	°	•	•	•
Direct management of banknote reader	°	•	-	•
3 code manag. (manager, location, machine)	•	•	•	•
Machine No. to be edited by the user	°	•	•	•
Manag. of max. value to be charged on key	•	•	•	•
Differentiated key management	•	•	•	•
Black list management	•	•	•	•
2 time period management	°	•	•	•
Bonus management	-	•	•	•
Automatic summer time management	•	•	•	•
Audit data management	°	•	•	•
On site firmware update	•	•	•	•

° Functions performed by MDB controller

°° 10 prices for "Standard Serial" and "Price holding" modes. In "Executive" mode they are managed by the machine.

# Eurokey Plus cashless system

36

## Accessories

### Programming

#### KysOne

It is EuroKey Plus initialization software. Via KysOne it is possible to configure the system according to the using mode (Executive, MDB or Parallel). It attributes the safety codes, defines the management mode of sales, keys, audit and price policy. It can show and print audit data and turn them into EVA DTS format, the most commonly used format in vending management programs.



#### Programmer

It is the portable tool to carry out the system parameter configuration or modification, without requiring a pc and directly on site. It also allows to visualize audit data. Duly configured, it can also be used to program or configure the vast range of our payment systems.



#### Red key - Configuration

The system can also be configured by simply inserting this special key into the block and it will transfer all configuration parameters previously set via KysOne.



### Data collection

#### Box Audit

This small tool allows to easily download and store audit data up to 80 different equipment. Memory is read via a simple USB connection to the pc.



### Starter Kit

For all EuroKey Plus versions, a complete kit is available for an easy system installation and test.

#### Executive

Programming CD ROM with serial interface, 10 user keys, 1 programming key, 1 EuroKey Executive block, 1 Executive wiring.

#### MDB

Programming CD ROM with serial interface, 10 user keys, 1 programming key, 1 EuroKey MDB block, 1 MDB wiring.

#### Parallel

Programming CD ROM with serial interface, 10 user keys, 1 programming key, 1 Eurokey parallel block, 1 power supply interface board, 1 display, 1 standard wiring.



## Accessories

### Yellow key – Credit charge

Special key for final users. It is provided with a precharged value to be used by EuroKey Plus to charge credits onto user keys.

This key is therefore designed for systems without validators.

Particularly suitable for small managements requiring small investments.



### 24 Volt 16-pole Adaptor

It makes the system even more versatile as it allows to interface the system also with validators on the market using the 16 poles / 24 Vdc standard, commonly used in the vending sector.



### Plate

The high mechanical versatility of EuroKey Plus is shown also by this plate expressly developed for retrofitting installations.

Assembly is made through 4 small holes that can be easily made also on site.

This accessory allows to install EuroKey Plus on any equipment; therefore ideal for all retrofitting systems.



### Horizontal label

It replaces the original label in case of horizontal installation of the block.



### Metal front plate

To install EuroKey Plus on machines built for front coin mechanism.

### USB Kit

USB kit: consisting of 1 board and 1 USB cable, it allows to connect EuroKey Plus directly to the pc without requiring any additional adaptor.



## Recharge systems

### Key charger and dispenser

Built in installation with rear opening, 3-lock system.

Made in 12/10° stainless steel with IP33 protection degree.

Key recharge can be made using coins/banknotes.

The operations carried out can be seen via pc or audit box.

It can dispense keys in self-service mode.

Dimensions (lxhxw) (mm): 510 x 760 x 500.



### Key Charge (counter or base)

Designed to centralize cash collection. Ideal for those places with many vending machines that can have no validator.

This system ensures remarkable savings in management costs.

The operations carried out can be seen via pc or audit box.

Dimensions (lxhxw) (mm): 260 x 440 x 335.



### Counter recharge box

The counter box can charge (or download) credits onto keys in the desired quantity.

It can be used to sell credits the value and currency of which can be configured via KysOne.

Audit data can be read or downloaded via pc or AuditBox.

Dimensions (lxhxw) (mm): 130 x 180 x 90.

