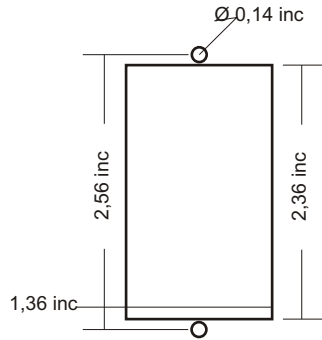
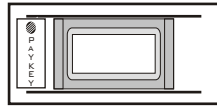


## Hole dimensions in the front panel

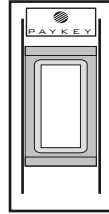


## How to use the stickers

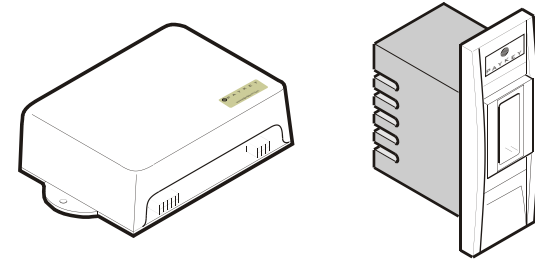
If the slot reader is in horizontal position:



If the slot reader is in vertical position:



# PK1 Operating Instructions



## Thanks for your choice:

Your PK1 Package includes the following items:

- |                               |                   |
|-------------------------------|-------------------|
| <b>1</b> PK1 central unit:    | cod. 2-03-0001-00 |
| <b>1</b> PK1 slot reader:     | cod. 2-03-0002-00 |
| <b>1</b> MDB harness:         | cod. 0-03-0001-00 |
| <b>1</b> Slot reader harness: | cod. 0-03-0002-00 |
| <b>2</b> Stickers set:        | cod. 2-02-0001-00 |

## Warranty and liability

A. PAYKEY™ USA Inc. warrants the System, exclusive of consumable parts, to be free from defects in material and workmanship for the period specified.

- i. Hardware products: 12 months from date of shipment
- ii. Software products: 90 days from date of shipment

B. The System warranty shall become effective upon the earlier of:  
i. shipment by PAYKEY™ USA Inc. to Customer's facility where installation is not specified as part of the Agreement; or  
ii. the completion of the installation by PAYKEY™ USA Inc. at the Customer's facility with the Customer's System sign off. Any delay in completion of installation caused by Customer not having the facility ready on the agreed date shall reduce the warranty period by a period equivalent to such delay.

C. PAYKEY™ USA Inc. obligation under this warranty shall be limited to the repair or replacement at election of parts determined by PAYKEY™ USA Inc. to be defective or non-conforming. All replaced parts become the property of PAYKEY™ USA Inc. Replacements shall be new or refurbished to the equivalent of new parts.

D. The System warranty is expressly conditioned upon and may be voided by PAYKEY™ USA Inc. in the event the Customer:  
i. fails to perform applicable preventative maintenance of the System as recommended by PAYKEY™ USA Inc.; or  
ii. fails to maintain proper environment for operation of the System in accordance with PAYKEY™ USA Inc.'s recommendations; or  
iii. performs any modifications to the System not authorized by PAYKEY™ USA Inc. in writing; or  
iv. improperly installs or damages the System; or  
v. connects to the System any other device not approved, in advance, by PAYKEY™ USA Inc.; or

- vi. uses parts which are defective or not as to original specifications; or
- vii. uses or operates the System or components of the System for purposes other than its intended use of application; or
- viii. has Past Due Payments, or
- ix. improper site preparation and maintenance, or accident, disaster, or vandalism.

E. Where System productivity figures, or payback periods have been stated or implied by PAYKEY™ USA Inc. orally or in writing, Customer understands that they are not representations or warranties by PAYKEY™ USA Inc. but are only good faith estimates based on field and application data available to PAYKEY™ USA Inc. at the time.

F. PAYKEY™ USA Inc. warrants that it has the right to sell the System.

G. PAYKEY™ USA Inc. shall not be liable for any lost profits, or for any claim or demand against Customer by any third party. In no event shall PAYKEY™ USA Inc. be liable for consequential damages even if PAYKEY™ USA Inc. has been advised of the possibility of such damages.

I. In no event shall PAYKEY™ USA Inc. be liable for damages, from improper or negligent use or operation of the System, or from a System altered or repaired by personnel other than those in the employ of PAYKEY™ USA Inc. or authorized in writing by PAYKEY™ USA Inc. to repair the System.

H. THE FOREGOING WARRANTIES ARE IN LIEU OF ALL OTHER WARRANTIES AND THERE ARE NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

## Introduction

PK1 is an advanced stand-alone electronic key reader, fully compatible with the PAYKEY™ System. It is also fully compatible with the Multi Drop Bus (MDB) and EVA DTS and DEX UCS data collection protocols.

PK1 keeps the accountability of sales made by keys and total amounts for future sales. Data can easily be collected using a Special key.

Programming options are transferred to the machines using a Special key.

The PK1 Slot reader is separate from the central unit. It can be installed in both horizontal and vertical positions.

## Installation

**Important:** please refer to the user's manual of your Vending Machine to make sure this equipment is MDB compatible and accepts card reader.

Also check PK1 compatibility list (connect to [www.paykeytech.com](http://www.paykeytech.com)) for the right eprom version.

After making the necessary hole in the front panel (see the "Hole dimensions in the front panel" chapter) of the Vending Machine and fixed the central unit into it. If possible make diagnostic **LED1** green and **LED2** red (see below for more information).

The **MDB harness** has to be connected to the **J1** connector on the central unit. The terminal set on the other side of the cable has to be connected to the machine and to the changer (if any).

The **Slot reader harness** has to be connected to the **J5** connector on the central unit.

**LED1** green **Steady:** the MDB harness is correctly connected.  
**Off:** there isn't power supply.

**LED2** red **Steady lit or off:** there isn't communication between PK1 and Vending Machine.  
**Flashing:** the communication between PK1 and Vending Machine is correct.

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## Programming PK1

### Kinds of Pkey

PK1 works with contactless Pkey to operate the cashless system it is necessary to use these keys.

- **User key:** this is the key used by customers for purchasing the goods.
- **Reset key:** allows the complete setting to zero of all data and the **System code** in PK1.
- **Revalue special key:** allows to show on the vending machine display the total amount for future sales. This data isn't resettable.  
**Important:** due to some vending machines firmware, when the cumulative amount is up 300\$ the counter will restart from 0.
- **Sales by key special key:** allows to show on the vending machine display the total of sales made by key. This data isn't resettable.  
**Important:** due to some vending machines firmware, when the cumulative amount is up 300\$ the counter will restart from 0.

- **Config key:** allows to define a discount percentage in your vending machine.  
**Note:** to define a discount percentage is necessary AirWrite software.

### Pre-defined configuration

PK1 is supplied equipped from PAYKEY™ with a pre-defined configuration:

System code: 0  
Decimals: 2  
Base value for communication: 0.01 \$

### Assigning a System code

To codify the PK1 System MDB means to assign it an univocal number. This operation identifies all the systems so that all vendors keys will be spendable on its only vending machine. The coding operation is performed using the System Code Key, a special key released by PAYKEY™ with the "Starter kit" (the System Code key is identified by a number written under it).

PK1 is supplied from Paykey™ without any System code inside (code 0).  
With PK1 already powered, insert the System Code key into slot reader.  
If the operation is successfully done, the green light

Now the PK1 System is codified and it will only accept the Pkeys with the same System code.  
In order to reset the system back to its predefined configuration, insert a reset key with the same System code currently in the system.  
If the green light flashes, the system has been reset and no System code remains.

### System functions

#### Operation with key

**Sale:** insert a user key in the slot reader. Its current credit is shown on the vending machine's display, now it is possible to purchase the goods. The amount corresponding to the item price is deducted from the key, and the product is dispensed.

**Please wait for green light on slot reader, before extracting the key.**

#### "Revalue" special key:

- Vending attendant inserts special key "Revalue" into reader.
- Display will read the future sales (wraps at 300,00\$) machine has accepted by PAYKEY™.
- Vending attendant records this number for accounting purposes.
- Remove SPKey.

#### "Sales by key" special key:

- Vending attendant inserts special key "Sales by Key" into reader.
- Display will read the cumulative amount (wraps at 300,00\$) machine has accepted by PAYKEY™.
- Vending attendant records this number for accounting purposes.
- Remove SPKey.

## Troubleshooting guide

Most of common problem are described below, along with the possible solutions

### System does not power up

*Power connector (J1) not correctly inserted*  
Check for perfect connector fit or cable is damaged.

### Slot reader, yellow light fixed on

*The vending machine does not initialise the PK1*  
Check the compatibility list and verify the eeprom version of vending machine. Check the harness.

### Slot reader red light flash

*Key not accepted*  
System code's Key is different than system code just memorized into the PK1 device  
Check for correct System code.

### System does not accept the code key

*System has already encoded*  
Reset system with a reset key, carrying the same System code as in the system, then re-configure system and encode it.

