

# CD100 Series

## SINGLE COLUMN CARD DISPENSER



## Operators Manual

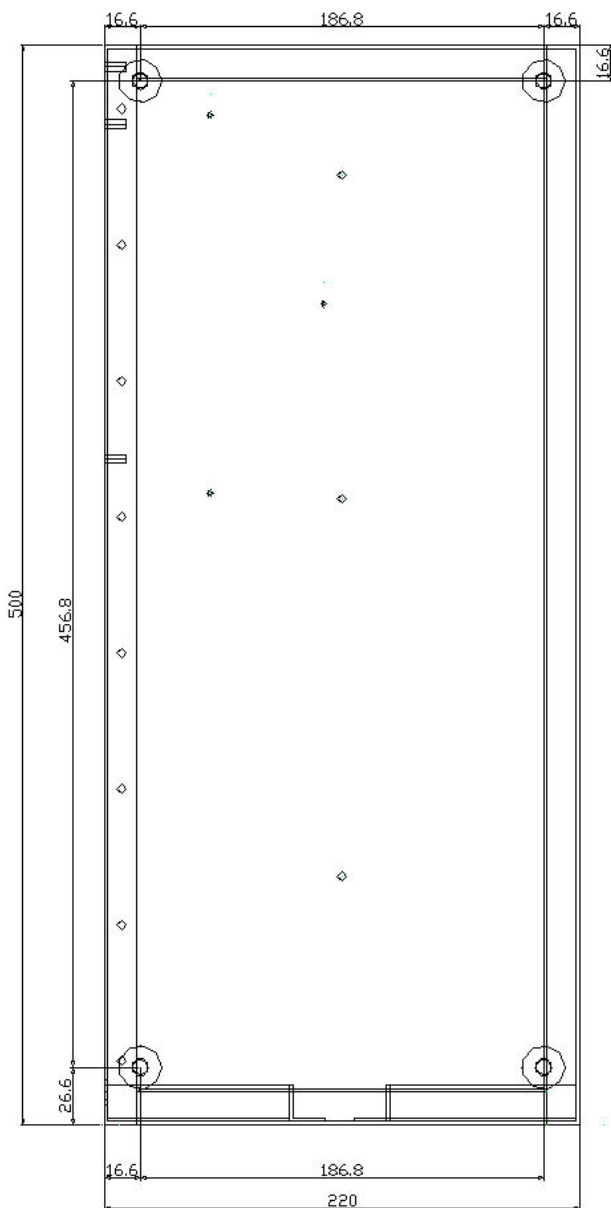
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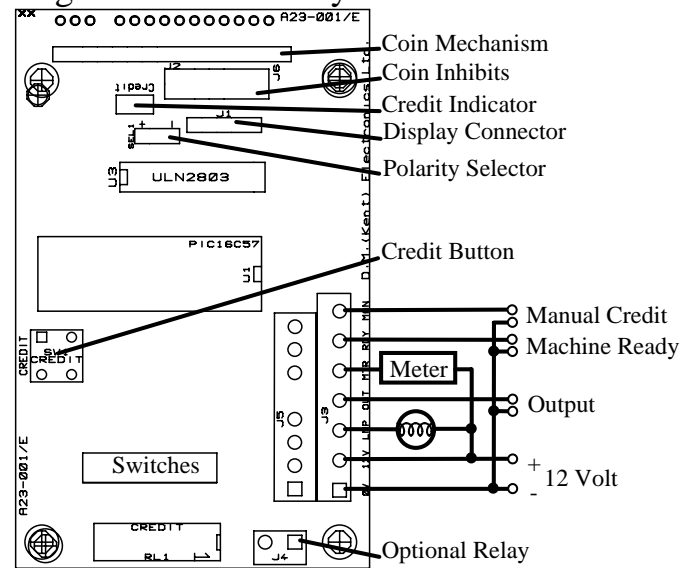
# 1 Specifications

Height: 500 mm  
 Width: 220 mm  
 Depth: 222 mm  
 Empty Weight: 10 kg

Capacity: Approx 600 cards  
 Power: 110 - 240V 1A AC  
 50Hz



## Logic Board Anatomy



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# 2 Installation

## 2.1 Unpacking and inspection


The CD100 is supplied protected for transport and should be carefully removed from its packaging and inspected. A small plastic bag containing two keys and this manual should be found within the packaging. All the packaging should be kept in case it is necessary to return the machine for service. Packing material is used inside the CD100 to protect the internal parts during transport. Ensure that all this material is removed.

## 2.2 Installation

When choosing a location for the CD100 it is important to remember that, when full, it can weigh in excess of 10 kg. Care should be taken that the walls and mounting points are robust enough to support the weight. All installations will be different and this manual can only give general guidance.

## 2.3 Electrical Connections

After installation in the UK, the CD100 should be fitted with a standard BS1363 plug fused at 3 Amps using the following wiring colours:


- Brown - to the terminal marked L or Live or coloured Red
- Blue - to the terminal marked N or Neutral or coloured Black
- Yellow/Green - to the terminal marked  or E or Earth or coloured Green

**This equipment must be earthed**

In other countries local rules should be observed.

## 2.4 Initial test of machine

After installation and connection of the CD100 to mains power (but before switching the power on) proceed as follows:

- 1) Open the door and perform a visual check of the internal parts, check the dispensers are fully home and the extension column and coin box are in position. Ensure that no foreign bodies or packing material are present.
- 2) Switch on the mains power to the CD100. Then switch the CD100 on at its main switch, which should illuminate.
- 3) The main display will cycle through its test sequence and after a few moments the main display will show . Fill the dispensers as detailed in the relevant section of this manual and close the door.
- 4) The available when lit lamp will light up. It is now ready for use.
- 5) Confirm the payout settings, operating mode and currency selections are correct by testing the CD100 with a range of different coins. Confirm that the payouts are as required.


# 3 Normal Operations

The CD100 needs no special servicing or maintenance. It may be switched off and on whenever necessary and will retain all settings and configuration. If power is removed during a payout that payout will not be restarted when the power is reconnected.

The operator controls the functions of the CD100 through the button and 8 way switch on the logic board that is located on the inside of the door. Using these the operator can:

- 1) Change the payout value;
- 2) Dump the dispenser;

The CD100 is fully programmable on site and gives the operator flexibility in setting how many cards will be paid out.

The display will show the number of cards to be paid out when the card value has been reached. Until the card value has been reached the display will show  and the available when lit lamp will flash.

On the inside of the door there is a mechanical meter. This counts the coins accepted in 10p steps.

# 4 Filling Dispensers

1. The dispenser used in the CD100 uses a micro-switch in the base of the card stack to detect the presence of cards. The cards must have sufficient weight to press down on the micro-switch and operate it. A Metal I-bar weight is supplied to ensure that the card stack is heavy enough to operate the switch correctly. This I-Bar weight **MUST** be placed on top of the card stack at all times.

To refill a dispenser proceed as follows after the door has been opened as fully as possible:

- 1) If the CD100 has stopped during a payout and indicated a dispenser-timeout (available when lit lamp not illuminated) or dispenser low (available when lit lamp not illuminated) error **DO NOT TURN THE POWER OFF**. If the CD100 has indicated a dispenser low error at switch on, or some other time when no payout is in progress, or if the dispenser is being topped up without being empty first then it is recommended that the power be switched off at the main switch inside the CD100 before filling.
- 2) Unlock and open the Column Front Door as detailed in the preceding section.
- 3) Remove the I-Bar weight.
- 4) Fill the Extension Column with cards being careful to ensure no foreign matter comes between the cards.
- 5) Replace the I-Bar weight on top of the card stack.
- 6) Close and lock the Column Front Door as detailed in the preceding section.
- 7) If necessary switch the CD100 back on.
- 8) When the cards are placed in the dispenser and the low switch is triggered it will complete any partial payout and the CD100 is ready for use.

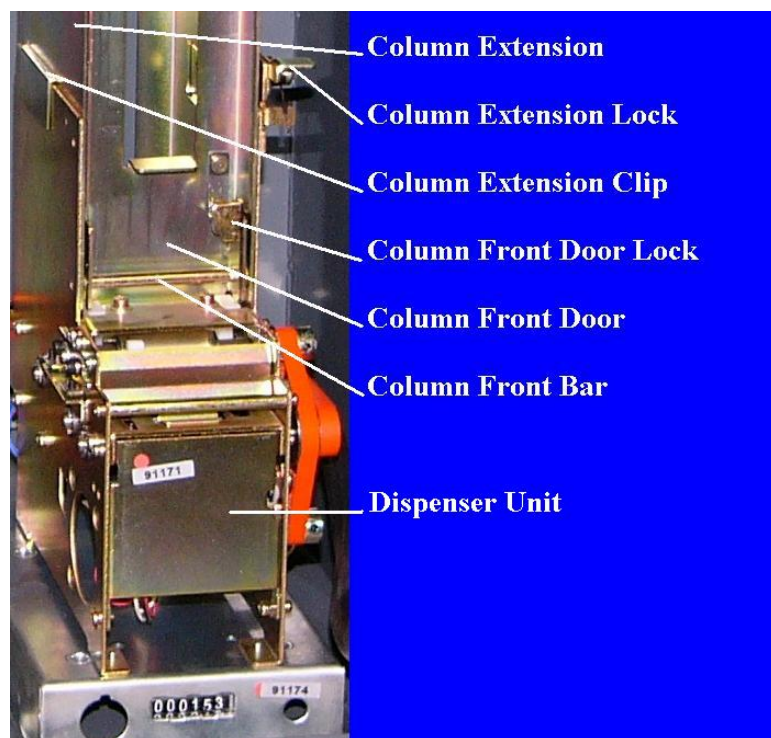
# 5 Dispenser Dump

It is often necessary, for audit, maintenance, storage or transport reasons, to empty the dispenser and the CD100 is able to dump any dispensers under operator control. The CD100 cannot dump a dispenser if it is processing a transaction. In order to dump a dispenser proceed as follows:

- 1) Open the door and press the credit button, this will dump the cards from the dispenser.

## Manually emptying the CD100

It may be necessary to empty and remove the dispenser when the machine cannot be dumped through the dispensers. This can occur if power is not available, or if there are so many cards to remove that dumping through the dispenser would be impractical, or if the dispenser is faulty. It is strongly recommended that the CD100 be switched off from its external power at the external mains feed (wall socket, spur switch or distribution point) before manually removing cards from the machine. It is possible that a card could fall into the bottom of the machine during manual emptying, where it could be potentially dangerous.



- 1) Press the Column Front Door Lock and lift the Column Front Door up and over the Column Front Bar.
- 2) Swing the Column Front Door up and secure it so it cannot fall back.
- 3) Remove the I-bar card weight and any remaining cards from the column.
- 4) Close the Column Front Door and lock it back into place.
- 5) If necessary to remove jammed cards press the Column Extension Lock and push the entire Column Extension back about 10mm with respect to the Dispenser Unit. Swing the top of the Column Extension forward and lift it clear of the machine.
- 6) Replacing the Column Extension is the reverse of removal but be careful to locate the two Column Extension Clips (one each side) correctly.

# 6 Card Value Setting

Function	Sw1	Sw2	Sw3	Sw4
Fast credit pulse	ON			
Slow credit pulse	OFF			
No bonuses		OFF	OFF	OFF
Use coin bonuses		ON	OFF	OFF
Use bonus plan 1		OFF	ON	OFF
Use bonus plan 2		OFF	OFF	ON
Use bonus plan 3		OFF	ON	ON

Function	Sw5	Sw6	Sw7	Sw8
Disable Pence per Credit	OFF	OFF	OFF	OFF
50p per credit	ON	OFF	OFF	OFF
£1.00 per credit	OFF	ON	OFF	OFF
£1.50 per credit	ON	ON	OFF	OFF
£2.00 per credit	OFF	OFF	ON	OFF
£2.50 per credit	ON	OFF	ON	OFF
£3.00 per credit	OFF	ON	ON	OFF
£3.50 per credit	ON	ON	ON	OFF
£4.00 per credit	OFF	OFF	OFF	ON
£4.50 per credit	ON	OFF	OFF	ON
£5.00 per credit	OFF	ON	OFF	ON
£5.50 per credit	ON	ON	OFF	ON
£6.00 per credit	OFF	OFF	ON	ON
£6.50 per credit	ON	OFF	ON	ON
£7.00 per credit	OFF	ON	ON	ON
£7.50 per credit	ON	ON	ON	ON

# 7 Bonus Table

Price Per Card	Bonus Plan	Number of Bonus Credits given at:				
		£5	£10	£20	£30	£40
50p	1	1	2	5	8	11
	2	1	3	7	11	15
	3	2	5	12	18	25
£1.00	1	1	1	3	5	7
	2	1	2	5	8	11
	3	2	4	10	15	21
£1.50	1	1	1	3	5	7
	2	1	2	6	8	13
	3	2	4	9	14	19
£2.00	1	0	1	2	4	5
	2	1	2	5	8	11
	3	1	3	7	11	15
£2.50	1	0	0	1	2	3
	2	0	1	2	4	6
	3	0	1	3	6	7
£3.00	1	0	0	1	2	4
	2	0	1	2	3	5
	3	0	2	3	5	8
£3.50	1	0	0	2	3	4
	2	0	1	3	4	7
	3	0	2	4	6	9
£4.00	1	0	0	1	2	3
	2	0	1	2	4	5
	3	0	1	3	5	7
£4.50	1	0	0	1	2	3
	2	0	0	1	3	5
	3	0	0	2	4	6
£5.00	1	0	0	0	1	2
	2	0	0	1	2	3
	3	0	0	1	3	5
£5.50	1	0	0	0	1	2
	2	0	0	1	1	3
	3	0	0	1	2	4
£6.00	1	0	0	0	1	2
	2	0	0	1	1	3
	3	0	0	1	2	4
£6.50	1	0	0	0	1	2
	2	0	0	1	1	3
	3	0	0	1	2	4
£7.00	1	0	0	0	0	1
	2	0	0	0	1	1
	3	0	0	0	1	2
£7.50	1	0	0	0	0	1
	2	0	0	0	1	1
	3	0	0	0	1	2

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