Product Specification

Model   :   **LCDM-2000**
                            (Cash Dispensing Module)

Total Page   :   **6 Page (including cover)**

Date   : 2002. 2
Version   :   V2.4
Rom Version : Ver1.6

PULOON Technology Inc.

1. Preview and Features

1.1   Preview

LCDM-2000 is the cash-dispensing module that can be applied to ATM and notes exchanger for retail market. The main function is to dispense the exact number of banknotes in the cassette by a customer's request and to transfer to the customer automatically.

1.2 Features

1) To separate notes by friction rollers
2) To prevent from double dispensing case by mechanical double detect mechanism
3) To implement mold guides and paths to minimize jam occurrence
4) To maximize convenience in maintenance or clearing by opening guide structure
5) To realize so compact and slim size to be easily applied to even small space
6) To speed at a rate of 3 banknotes/sec
7) To dispense 2 denomination
8) After power failure, bills on the path are rejected to reject tray when power turns on (Auto reject function)

2. SPECIFICATION

2.1 General Specification

2.1.1 Denomination   2 Denomination

2.1.2 Cassette Capacity   a pile of 123 mm notes

2.1.3 Dispensing Speed   3 notes/sec

2.1.4 Usable Note Size   Width: 100 ~ 162mm

                    Height: 62 ~ 78mm

2.1.5 Double Feeding Detection   Mechanical type

2.1.6 Reject Capacity   About 30 notes

2.1.7 Access Type   Front Access Type

2.1.8 Dimension (unit:mm)   310.2(D) x 356(H) x 266.7(W)

2.1.9 Near-end detection   About 30 ~ 50 notes

2.1.10 Bill-end detection   0 or Approx. 10 ~ 30 notes

                   (by setting dip switch)

 2.1.11 Interface   RS 232C

2.2 Electrical Features

2.2.1 Insulation Resistance   20MΩ and over

2.2.2 Insulation Resisting Pressure.   For a minute in the 500V

2.2.3 Rated Voltage   DC24V$\pm$10%

2.2.4 Rated Consuming Current

   - Standby Status   160 mA

   – Average Current   1200 mA
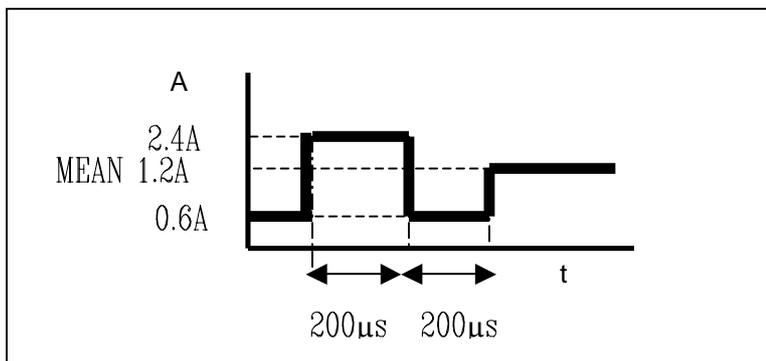
2.3 Operation Environment

2.3.1 Operation Temperature   + 5. ~ +40.
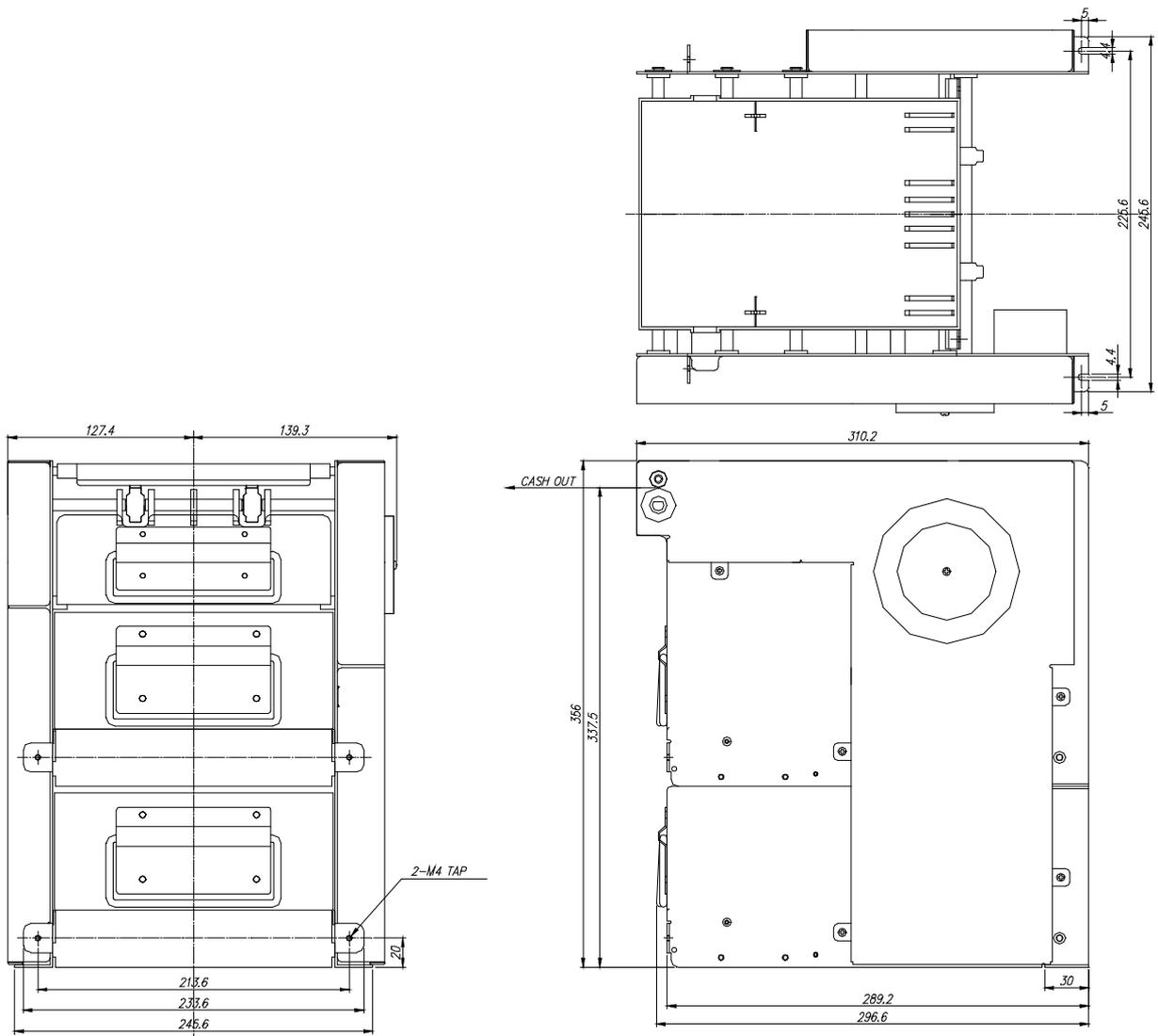
2.3.2 Storage Temperature   -10. ~ +60.

2.3.3 Operation Humidity   20% ~ 80% RH

2.3.4 Storage Humidity   10% ~ 90% RH

3. LAYOUT

4. CONNECTOR SPEC.

4.1 Power Connector

The power connector is positioned at the bottom of the LCDM main controller.

Connector on Controller : MOLEX 5566VWO-02

Matching Connector   : MOLEX 5557D-02

Pin No	Function
1	+24V
2	GND

4.2 Communication Connector

The communication connector is positioned at the bottom of the LCDM MAIN Controller PCB. It is 9-way and D-type connector.

Pin No	Name	Function
1		Not used
2	RXD	Received data
3	TXD	Transmitted data
4		Not used
5	GND	System ground
6		Not used
7		Not used
8		Not used
9		Not used
10		Not used

4.3 Serial Communication Specification

Baud rate	9600 bps
Data bits	8 bits
Parity	No parity
Stop bits	1 stop bit

4.4 Dip Switch Assignment

SW1

```
ON
 ▲
 ▼
OFF 1  2  3  4  5  6  7  8
```
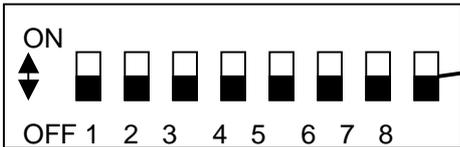
> The switch should be set as "ON" state like figure.

< Choice of currency in the Upper Cassette >

ON : EUR(20,50€) , NZD(20,50$), GBP(□),

CNY(1,2Yuan), Korean Banknotes(\)

OFF: EUR(5,10€) , NZD(5,10$), AUD($), CAD($)

USD($), BRL(REAIS), CNY(10,20Yuan)

< Choice of currency in the Lower Cassette >

ON : EUR(20,50€) , NZD(20,50$), GBP(□)

CNY(1,2Yuan), Korean Banknotes(\)

OFF: EUR(5,10€) , NZD(5,10$), AUD($), CAD($)

USD($), BRL(REAIS), CNY(10,20Yuan)

< Display of Reject code >

ON : Non-Display   **OFF**: Display

< Baud Rate >

ON : 9600 bps   **OFF**:19200bps

< Thickness criterion for currency used in Upper Cassette >

ON : Others   **OFF**: CAD($)

< Thickness criterion for currency used in Lower Cassette >

ON : Others   **OFF**: CAD($)

< Adaptation of over-reject stop function (option) >

ON : Stop when over-rejected

OFF: Continue to dispense in spite of over-rejected

(over-reject: bills over 6 are rejected)

< Definition of Bill-End (option) >

ON: 10~30 bills remain   **OFF**: No bill remains