



# CP8

# Débimat 200<sup>®</sup>

The Debimat 200<sup>®</sup> is an electronic payment terminal designed to be used by stores and banks having one or several points of sale. The usual means of payment is a CP8 microcomputer card, but the terminal can also accept magnetic stripes cards.

The modular design of the Debimat 200<sup>®</sup> (control unit, retailer unit, customer unit and printer) means that it can be configured in different ways of working.

## DESCRIPTION

### CONTROL UNIT

The compact control unit contains the following elements:

- programme memory,
- log store: removable 8 K - byte cartridge holding parameters of transactions; a key is required to remove it,
- power supply unit: provides power to the different units from the main supply (220 V, 50 Hz, or 110 V, 60 Hz),
- connectors: attach the different units to the control unit,
- communications interface: permits the Debimat 200<sup>®</sup> to be connected to a host computer via a switched telephone network; the interface includes a modem with automatic dialing and answering facilities.

### CUSTOMER UNIT

The purpose of this unit is to let the customer:

- identify himself as the authorized cardholder by entering his personal secret code,
- indicate his acceptance of the payment and authorize the necessary transfer of funds,
- be advised in the event of the non-acceptance of payment.

The customer unit comprises the following elements:

- **keypad: 15 keys** including 10 alphanumeric keys corresponding to a digital phone layout; keys are available to do the following:
  - cancel a transaction in progress,
  - correct a keying in error,
  - display the balance of purchasing power remaining on a card,
  - validate the execution of a transaction.
- **Display:** 8 characters (2 x 5 mm) which indicate to the customer the amount to be paid.
- **LED indicators:** provide information to the customer: green characters are used to show normal functioning or to give instructions, red characters indicate a fault or inability to continue.

The unit is designed so that the customer can compose his code and perform operations in private.





## RETAILER UNIT

This unit is used uniquely by sales staff; it initiates payment from a microcomputer card. It comprises:

- **numeric pad:** 15 keys including correction and cancel keys,
- **function keyboard:** 15 keys initiating typical cash register operations,
- **display:** 12 characters which can display the total amount of payments recorded in the current session or the amount to be paid by the current customer,
- **LED indicators:** provide information on the progress of the current transaction: green characters indicate normal operation, red draws attention to a fault or inability to continue,
- **Card reader:** a slot into which the CP8 card will be introduced.

## PRINTER UNIT

This prints information concerning recorded transactions and account enquiries. It comprises the following elements:

- **serial printer** with the following features:
  - alphanumeric characters, 20 columns,
  - 5 x 7 dot print matrix,
  - characters size: 1.82 x 2.58 mm,
  - 1.8 lines per second.
- **Control circuit board:** controlling printer and providing interface with control unit.
- **Motor-driven paper feed:** for log roll.
- **Power up indicator:** lights up to show that the printer has been powered up from the control unit.

This printer works with a two-ply paper:

- 1 copy as a ticket for the customer,
- 1 copy remains in the printer as a log journal of transactions.

## FUNCTIONS AND WORKING MODE

### OPERATION PRINCIPLE

Each customer has a personal payment card which is credited with a certain "buying power". Whenever he makes a purchase, the buying power will be reduced by the appropriate amount and the transaction recorded in both the card's memory and that of the terminal. The customer's bank account will be debited when the store has sent its log of transactions to its bank's computer and after the normal clearing process. The retailer's account will be credited in the mean time.

## MAIN FUNCTIONS

### Payment functions

- consult card balance,
- execute transaction,
- check:
  - validity of the card,
  - authorization and solvency of the cardholder,
  - available memory in the card and the log store.

### Cash register functions

- open and close procedures,
- end-of-day procedure,
- log termination,
- temporary shutdown.

## COMPUTER LINK FUNCTIONS

The integrated modem permits the Debimat 200® to call a computer automatically using a stored number and respond to a call from the computer.

The main functions are:

- load and update the blacklist in the log cartridge using information maintained by the computer,
- transmit the contents of the log cartridge to the computer at the end of the day or shift. This permits the accounts to be updated to reflect transactions that have been effected during the period concerned.

## TECHNICAL SPECIFICATIONS

### Dimensions

Control unit	370 x 305 x 90 mm
Customer unit	250 x 140 x 90 mm
Retailer unit	250 x 180 x 100 mm
Printer	250 x 180 x 90 mm

### Weight

Control unit	7 kg
Customer unit	1 kg
Retailer unit	2 kg
Printer	4 kg

### Power consumption

Control unit	45 W
Printer	20 W

### Operating temperature

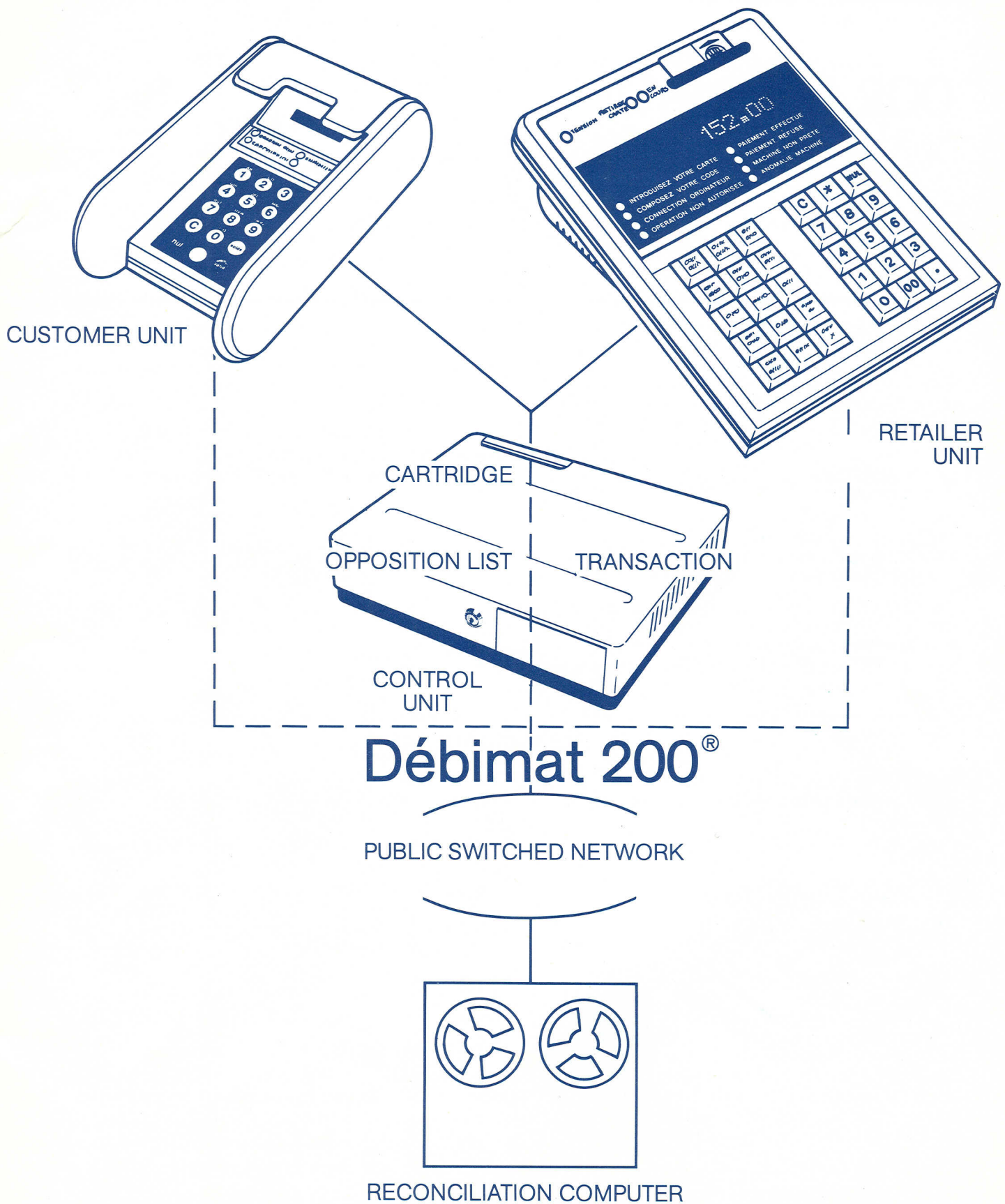
10 °C to 45 °C

### Maximum relative humidity

85%

### Power supply

200 V, 50 Hz  
110 V, 60 Hz.





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CP8 - BP 53 - 78340 Les Clayes-sous-Bois - Tél. : (3) 462.74.81

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