



Magnetic Stripe Reader SERIES 1205

OPERATION MANUAL

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This equipment has been tested and found to comply with the limits for Class A digital device. Pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and if not installed and used in accordance with the instructions may cause harmful interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on. The user is encouraged to try correct interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help. This booklet is available from the U.S. government Printing Office, Washington, DC 20402, Stock NO.004-000-00345-4.

CAUTION: Any changes of modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.

Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received including interference that may cause undesired operation.

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Appendix I: Specifications

1

Before You Install

This manual describes functions and usage of the Series 1205K magnetic stripe reader, including keyboard wedge and related options.

The 1205K is a bi-directional magnetic stripe reader which is easily formatted to ISO requirements. It is intended for use with credit authorization terminals, point-of-sale terminals, portable terminals, personal computers and banking terminals.

Model 1205K is designed to be used with IBM XT, AT and PS/2 computers, entering data as if it were being generated through the keyboard. No software modification, nor programming of input/output devices, nor additional power supply are needed.

Step 1: Turn off your computer

By shutting off your computer, you will prevent any accidental damage to the stripe reader and computer.

Step 2: Review packing list

Please ensure that your card reader shipment is complete.

Model 1205K (keyboard wedge interface) includes:

- 1 pce 1205K Card Reader with Communication Cable
- 1 pce Operation Manual

Step 3: Determine installation mode

Model 1205K reader supports both keyboard wedge in one unit. The mode has been set according to your purchase order.

Refer to Chapter 2 for 1205 keyboard wedge interface setting.

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Installing Model 1205

This chapter describes the procedure for installing the 1205K magnetic stripe reader. Several keyboard wedge parameters—including keyboard type, message suffix, inter-character delay, and track sentinels—may be adjusted by modifying the dip-switch settings on the underside of the magnetic stripe reader.

Step 1: Turn off your computer

If you have not already done so, turn off your computer to avoid any accidental damage to the card reader and your computer.

Step 2: Set keyboard Mode

Set SW4 on Model 1205K allow for the selection keyboard type. Locate your keyboard model and set the dip-switches accordingly.

KB Mode	SW4
AT	OFF
XT	ON

Step 2: Set language

Switch 5 and 6 activate Language type for the magnetic stripe. Set the dip switches according to your requirements.

Language	SW5	SW6
UK	ON	ON
US	OFF	OFF
Frensh	ON	OFF
German	OFF	ON

Step 3: Set message suffix

Switch 2 activates CR/LF (Carriage Return and Line Feed) at the end of data from the magnetic stripe. Set the dip switches according to your requirements.

CR/LF	SW2
ENABLE *	OFF
DISABLE	ON

Step 4: Set inter-Character delay

The inter-character delay is used to adjust the speed to avoid the garbage data transmission from the card reader through the keyboard wedge. These fine-tuning adjustments are helpful when connecting to terminal, notebook computer or the one that is not 100% IBM-compatible.

INTER MESSAGE DELAY	SW7	SW8
0 msec *	ON	ON
10 msec	ON	OFF
20 msec	OFF	ON
50 msec	OFF	OFF

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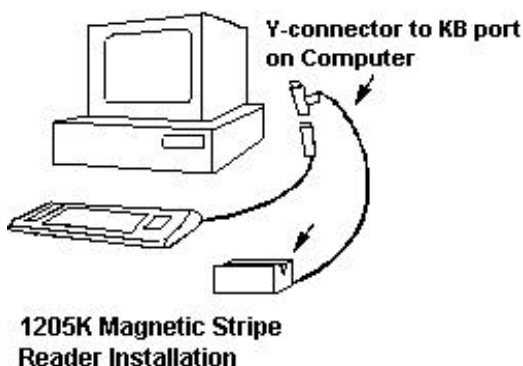
Step 5: Set start and end sentinels

The start and end sentinels following ANSI/ISO 4.16 and ISO 7810/1-1,2,3,4,5 may be activated with switch 3.

SENTINEL	SW3
ENABLE	OFF
DISABLE *	ON

Step 6: Connect to computer

Unplug the PC keyboard cable from the computer. Plug the keyboard cable into the 5-pin female end of the T-connector provided. Plug the male end of the T-connector into the keyboard port of your computer. An installation diagram is shown below.



Step 7: Turn on computer

Turn on your computer. The computer should boot up normally. Model 1205K will “beep” 3 sounds to indicate that it is ready for operation

Step 8: Turn to Chapter 4

You are now ready to test your 1205K magnetic stripe reader. Turn to Chapter 3.

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Testing and Troubleshooting

Testing 1205K

Hold the 1250K magnetic stripe card reader or secure it on a flat surface. Slide a magnetic stripe card through the bi-directional card slot, making sure that the magnetic stripe is facing the magnetic head of the card reader.

Model 1205K will “beep” three sounds to indicate a successful read. The card data will display on the screen in the format which was programmed into the card reader.

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Troubleshooting Series 1205

Situation	Solution
Card reader does not transmit the correct data	<ul style="list-style-type: none">• On 1205K: Be sure that the dip-switch setting corresponds with the type of keyboard. Try adjusting the inter-character delay, perhaps your computer keyboard interface is not 100% IBM AT compatible.
Card reader does not transmit any data	<ul style="list-style-type: none">• Check the magnetic stripe on the card. Is it in good condition?• Adjust the speed with which you swipe the card through the reader so that it is not too fast nor too slow.

A

Appendix

Specifications

Decoding Capability

- One Track: Track 1 or Track 2 or Track 3
- Two Tracks: Tracks 1 & 2 or Tracks 2 & 3
- Three Tracks: Tracks 1 & 2 & 3

Card Reading Speed

Magnetic Head Life

- 10 to 120 cm/sec
- Bi-directional

Status Indicator

- 500,000 passes

Parameter Settings

- Audible “beep” for three times and Green LED after blinking for each successful reading
- Green LED for standby status
- RED LED with three beeps sound for error status status

System Compatibilities

- Start and end sentinel
- Inter-character delay
- Message suffix

- Model 1205 keyboard wedge interface operates with IBM XT, AT, PS/2 and compatibles.

Specifications

Physical

- Dimensions: 100mm x 42mm x 27mm (LxWxH)
- Weight: 100g

Environmental

- Operating temperature: 0-40 °C
- Storage temperature: -20-60 °C
- Humidity: 10% - 90% RH (non-condensing)

Power Requirements

- Model 1205K: +5V from host or terminal

Power Consumption

- During operation: max 50 mA

Interface Connector

Pin Assignments



DIN5 Keyboard Interface

- #1: PC data
- #2: NC
- #3: GND
- #4: 5V
- #5: CLK
- #6: NC



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