

# 2892A / 2893A Card Reader

## Features

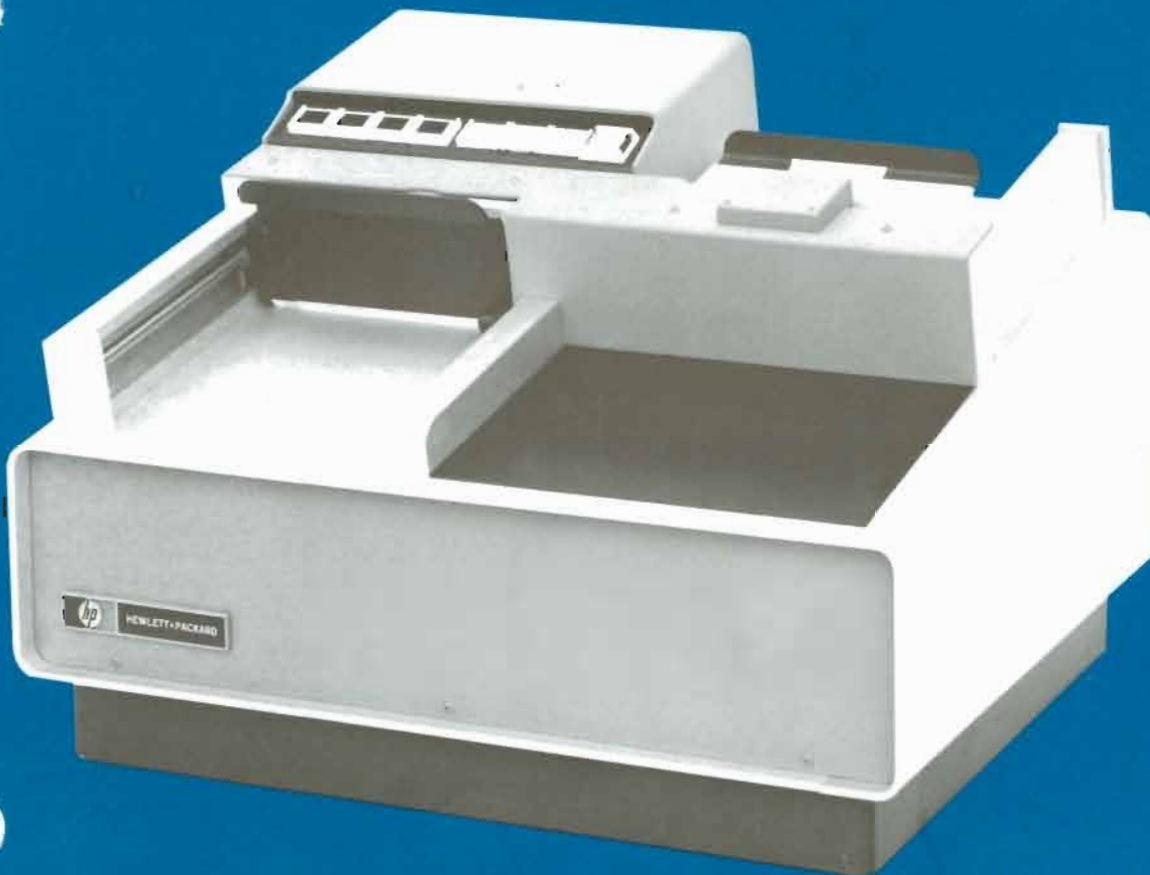
- Reads punched cards 600 cards per minute
- Vacuum card picking
- Slant-top design for smooth card flow
- Straight-through card-track for long card life
- Jam-proof operation
- 1000 card hopper/stacker



The HP 2892A and 2893A Card Readers provide medium-speed, dependable card reading capability for Hewlett-Packard computer systems. A vacuum pick mechanism is used in conjunction with raffle air for ease of card picking and minimum card wear. This technique also permits extremely high tolerance to damaged or worn cards. The card track is very short so that at no time is more than one card in motion. Card life is in excess of 1000 passes for virtually unlimited card life.

The many checking features of the 2892A and 2893A insure safe, dependable operation. These include light/dark check, motion check, pick-check for stapled cards, and hopper checks.

The 2892A is used with HP 2100-based computer systems and the 2893A with the HP System/3000. Both units are identical functionally, the only differences being in the type of interfacing each employs. Either the 2892A or 2893A is easily included with your HP computer system. All interface and software requirements for card reader operation with the appropriate computer system are supplied with the unit.



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# Programming

## 2100-BASED SYSTEMS

Software allows operation with HP Assembly Language, FORTRAN and ALGOL programs. SIO (non-interrupt), BCS (interrupt). Disc Operating System and Real-Time Executive Drivers are available.

## HP SYSTEM/3000

Software provided with the Multiprogramming Executive (MPE/3000) allows for operation from any programming language available with HP System/3000.



## Specifications

### CARD RATE

600 cards/minute

### CARD TYPE

Standard 80-column EIA card

### HOPPER/STACKER

1000 card capacity

### CARD LIFE

Excess of 1000 passes

### LIGHT SOURCE

Infrared light emitting diodes

## READ STATION

Photo transistor, 12 bits simultaneously

## INTERNAL CLOCK

Crystal Oscillator

## CONTROLS

Stop Switch  
Reset Switch  
End of File Switch  
Power Switch

## INDICATORS

Read Check Indicator  
Motion Check Indicator  
Pick Check Indicator  
Hopper/Stacker Indicator

## DATA FORMATTING

System/3000 interface controller provides Hollerith to ASCII conversion with packing; packed binary formatting (picks four columns into six bytes); and column binary conversion (each column plus four leading zeros packed into two bytes). Data formatting is provided by software subroutine in 2100-based systems.

## POWER REQUIREMENTS

Load:

1000 VA Starting Load,  
450 VA Running Load

Voltage:

115V  $\pm 10\%$ , 60Hz  $\pm 2\%$   
230V  $\pm 10\%$ , 50Hz  $\pm 2\%$   
115V  $\pm 10\%$ , 50Hz  $\pm 2\%$

## PHYSICAL

Height: 16-1/4 inches (413 mm)  
Width: 23-1/16 inches (586 mm)  
Depth: 18 inches (457 mm)  
Weight: 75 lbs (34 kg)  
Shipping Weight: 100 lbs (45.4 kg)

## ORDERING INFORMATION

### 2100-Based Systems

- A. 2892A Card Reader, 115V; 60Hz operation
- B. 2892A-015 Card Reader, 230V, 50Hz operation
- C. 2892A-020 Card Reader, 115V, 50Hz operation
- D. 12924A Interface Kit: Includes interface card, interconnecting cable and all necessary software for operation with HP 2100-Based Computer Systems.

Interface Power Requirements for 2100-Series Computers  
0.43A (-2V); 0.97A (+4.5V)

### HP System/3000

- A. 30106A Input/Output Subsystem: Includes the 2893A Card Reader and interface for use with HP 3000 computer systems
- B. 30106A-015: Same as A except 230V, 50Hz operation

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For more information, call your local HP Sales Office or East (201) 265-5000, Midwest (312) 677-0400, South (404) 436-6181, West (213) 877-1282.  
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