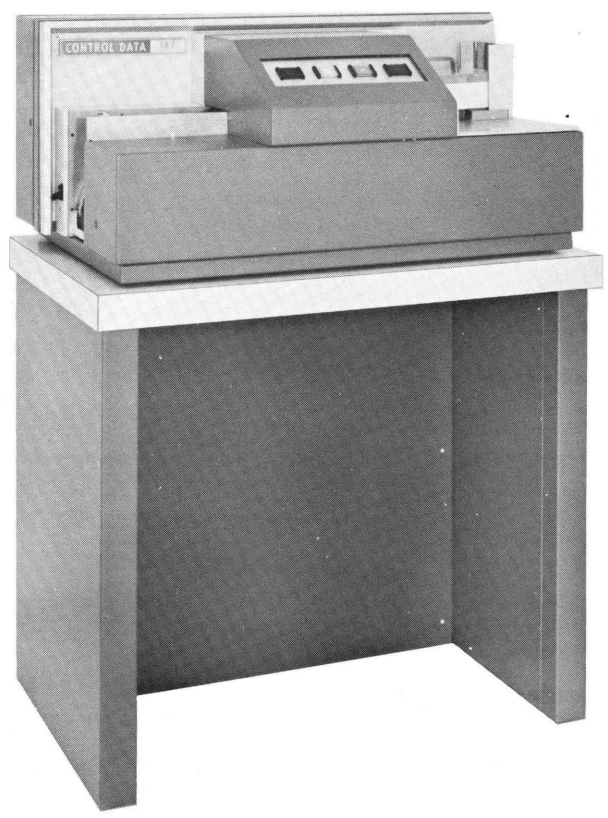


CONTROL DATA 167 CARD READER



CONTROL DATA 167 CARD READER

The 167 Card Reader is another addition to Control Data's line of peripheral equipment available for use with the 160 or 160-A Computers. The 167 is an on-line/off-line device which photoelectrically reads standard, 80-column punched cards at a rate of 250 cards per minute, then transfers data either to the 160 or 160-A Computer in 12-bit-per-word parallel mode.

SUMMARY OF FEATURES

- Reading Rate – 250 standard, 80-column, punched cards per minute.
- Cards photo-electrically read column by column.
- Hopper Capacity – 500 cards.
- Stacker Capacity – 500 cards.
- Dimensions – 13½" high x 29¾" wide x 18" deep.
- Weight – less than 100 lbs.
- Power Requirements – 115 volt, 60 cycle, 4 amps.
- Solid state.
- Low cost.

167 OPERATION

Information on punched cards is read serially by 12 photo-electric cells—column by column, end to end. This information is then sent 12 bits/row to the 160 or 160-A Computer in parallel mode. Thus eighty computer words represent the data on one card. The 167 can read any code (binary, Hollerith, BCD, etc.), with the bit pattern of 12 rows in one column being transferred to the computer. Cards are placed in the reader face down with the 1st column forward.

The information from each column may be presented to the computer as read or, if in the case of Hollerith coded cards, may be converted to BCD code. This translation is accomplished by an optional feature for the 167.

SELECT CODES

Operation of the Control Data 167 Card Reader is controlled by certain EF codes used by the 160 or 160-A Computer.

CODE	DESCRIPTION OF INSTRUCTION	CODE	DESCRIPTION OF INSTRUCTION
4500	EF Clear	4502	Single Card Read
4501	Free Run Read	4540	Check Status

STATUS RESPONSES

To a Status Check, certain responses result in the 167, as follows:

CODE	RESPONSE	CODE	RESPONSE
0000	Ready for Operation	0010	Program Error
0001	Hopper Empty	0020	Amplifier Failure
0002	Stacker Full	0040	Motor Power Off
0004	Feed Failure		

INPUT DISCONNECT

Three sets of conditions will cause a disconnect signal to be issued: FEED FAILURE, PROGRAM ERROR, or AMPLIFIER FAILURE.

OFF-LINE OPERATION

When used in conjunction with the Control Data 166 Buffered Line Printer, off-line card-to-printer and card-to-tape conversions are possible through the use of a buffer contained in the printer. Both off-line card-to-printer and card-to-tape conversions operate at a rate of 250 cpm in parallel with the main computer program.

For additional information, contact the Control Data office in your area.

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