

OMR-1100 Optical Mark Reader



- *Keyless Data Entry*
- *Reads up to 2,000 forms per hour*
- *Graded index fiber read head*
- *Self adjusting threshold for each channel*
- *Accepts various paper thickness*

The Model 1100 Optical Reader is a low cost, desktop data entry terminal for detecting marks on scannable forms and transferring the data to a computer via standard serial communications for processing by application software.

Significantly faster than keyboard entry, it reads one side of an input form automatically and without error. A standard input form measures 3-1/4" wide and anywhere from 5" to 14" in length and contain up to 126 rows of 12 marking positions. Input forms may also be part of a larger 8 1/2" x 11" sheet using a perforation at 3 1/4" to separate the input portion of the sheet from the Text portion.

Forms are inserted into the OMR and are automatically transported and scanned. The speed of processing is controlled by the operator and the speed of the computer. However, most 11" forms can be scanned at a rate of 20 to 35 forms per min. Once the form is scanned the data is available to the PC at transfer rates of from 300 to 38400 baud using standard RS232c serial communications via a serial communications port on the computer.

The Model OMR-1100 is available in two styles. The "Infra Red" unit will read standard #2 pencil, punched and pre-printed marks, and allows colored background printing. The "Visible Red" unit will read black or blue marks made with a ballpoint pen or feltip pen as well as pencil, punched and pre-printed marks. However, the background printing must be in the visible red range.

The Model OMR-1100 is supplied complete with an external Power Supply, Serial Data Cable (Macintosh or PC), Operator Guide, Test Cards, as well as Setup, Demo, and Diagnostic Software.

OMR-1100 Specifications

Scan Area:

Reads up to 12 x 105 mark positions
On 3-1/4" x 11" (8.25cm x 27.9cm) form

Interface/Baud Rate:

RS-232C, asynchronous (PC Serial)
300 through 38400 baud, full duplex

*Form Marking (Infrared Option):

#2 Pencil
Key punched slots
Pre-printed marks

Data Output:

ASCII Character
Binary
Download mask

Form Size:

3-1/4" x 5" to 3-1/4" x 14"
8.255cm x 12.7cm to 8.255cm x 35.6cm

Feed Method:

Manual
Feed through or reciprocating

Power:

114-125VAC, 60 Hz
220 VAC, 50 Hz available

Weight:

9 lb (4.10kg)

Scanning Speed:

18" (45.7cm) per second
300 through 38400 baud, full duplex

Read Technique:

Graded index fiber, single sided

*Form Marking (Visible Red Option):

#2 Pencil
Blue and black ball point pen
Blue or black felt tip pen
Key punched slots
Pre-printed marks

Transport Speed:

Up to 2000 eleven inch cards per hour

Paper Weight:

18 to 100lb
(.004" to .010" thick)

Microprocessor:

68HC11

Dimensions:

5.74" wide x 4.5" high x 9.5" deep
14.6cm x 11.4cm x 24.1cm

Operating Conditions:

41 degrees to 113 degrees F (5 degrees to 45 degrees C)
30% to 80% humidity, non-condensing

* The I.R. option limits the marking instruments but allows for greater selection of background colors for printing. The Visible Red option allows for a greater range of marking instruments but limits the background printing to a "Warm Red" color.