



Model 1200 Display Terminal

PRODUCT DESCRIPTION

The Model 1200 Display Terminal is a high quality, human engineered, full editing feature terminal with broad flexibility oriented toward transaction processing solutions.

Eye-level viewing, light touch keyboard, hooded display viewing and large 9 by 12-character matrix ensure reduced operator fatigue, fewer errors, and increased operator throughput.

Screen capacity is a full 24 lines by 80 characters of information providing a 1920 character presentation. The 9 by 12-character matrix presents a highly readable flicker-free upper and lower case character set with decenders on lower case letters. Sharp, well-formed images are displayed throughout the screen viewing area. Noiseless operation is ensured by quality engineered construction that allows fan-free convection cooling.

The human engineered keyboard assures operator comfort and ease of operation. The main keyboard is typewriter oriented with additional groupings for high speed data

editing functions, cursor control key group to allow quick response to cursor positioning demands, numeric key pad for calculator speed input of numeric data, and the optional 16-key user-function-code key set that allows the implementation of 32 discrete codes for a variety of special recognition needs.

FEATURES

- Large, Crisp 9 by 12-character matrix
- 1920 Character Display
- 128 ASCII Character Set
- Full Editing Controls
- Tab Functions
- Full Cursor Control
- Full Display Buffer
- Function Code Keyset
- Numeric Pad
- Field Protection
- Optional Line Drawing Capability

OPERATIONAL CHARACTERISTICS

Model 1200 editing capabilities allow character string insertion, character deletion, line insertion and line deletion. Automatic end-of-line wraparound is provided for operating ease.

Cursor positioning is easily accomplished with the cursor key group. Keys provide up, down, right, left, and home directives for the cursor. Using autotab, the cursor automatically positions itself to the next available unprotected field in the presentation. Cursor positioning and position sensing is also provided as a programmable function.

The numeric key group consists of a calculator-type arrangement of the numbers 0 through 9, a period, and a comma.

An additional keyboard time-saving function is typamatic, which allows an automatic 15-cps repeat generation of the selected character after a one-second delay when the key is depressed.

The optional 16-function key set allows user implementation of up to 32 unique codes by using the keys in conjunction with the keyboard shift key. Use of uniquely coded function keys can substantially reduce the number of keystrokes required to initiate frequently required transactions. Function-key activation automatically causes a "Request to Send" header to be transmitted, including the identifying unique function code.

A wide range of field attributes assure data-entry accuracy. Fields can be declared to have any combination of the following attributes:

- Protected — Field cannot be modified from the keyboard.
- Numeric Only — Only numeric characters, period, comma, plus sign, minus sign or dollar sign.
- Half Intensity — Less important data can be presented at reduced intensity.
- Blink — Field or data focus.
- Inverse — Any field can be presented in reverse video (black on white) to highlight its contents.
- Non-Display — Data entered in field is not displayed. Typical applications are security codes or information, authorization keys, etc.

DATA ACCURACY

Data accuracy is further enhanced by using the optional line drawing capability for duplication of source forms. In combination with the available field attributes, the form enhances readability and eases data entry recognition. The line drawing capability can also be used for tasks such as layout drawings, charts and graphs.

To reduce the data transmitted and attendant checking during transaction processes, the Model 1200 allows program implementation of a modified data tag. This tag

identifies fields that have been modified by the operator and allows transmission of only modified data.

Versatility in commands is also provided by allowing program modification to the meaning of the SEND PAGE, SEND LINE, and SEND MESSAGE keys to mean:

- Send all data.
- Send only data in unprotected fields.
- Send only data which has been modified.
- Send only a "Request to Send" header.

"Request to Send" can be employed to cause servicing of terminal data by commanding a Read All Data, Read Unprotected Data, or Read Modified Data.

An impressive array of local control keys are provided for operation convenience. In addition to those noted the following are provided: Here Is, Upper Case Only, Auto Line Feed, Now Line Enable, Scroll Enable, Local Mode, Repeat, Clear All, Print, Tab, Back Tab, Tab Clear, Clear Field, Clear Unprotected Field, and Break.

The Model 1200's transparent mode means building sensitivity to programmer needs. In this mode, the programmer can view all data and control characters being transmitted by the processor without the inconvenience of control-character activation by the terminal — a definite advantage in debugging tasks. Additionally, the print mode can be used in conjunction with the transparent mode to produce hard-copy records of the debug process.

The Model 1200 operates in both half or full duplex modes and is supported as a full duplex device by the standard RS232C interface directly connected or via modem for remote application. The terminal operates at speeds to 9600 baud with easily accessible switch speed selection.

The optional printer port allows connection of a local hard-copy device using a directly connected RS232C or current loop communication interface. The full screen buffer precludes the need to slow the data display to the speed of the printing device. Baud rates of the printer can range from 75 to 9600. The operator controls print function activation via the PRINT keys.

SOFTWARE SUPPORT

The Model 1200 is supported with a wide range of standard Interdata software. Included is the powerful multi-tasking OS/32 MT Operating System, the Interdata Telecommunications Access Method (ITAM) package and higher level languages such as FORTRAN, COBOL and BASIC.

SPECIFICATIONS

Screen Size	12 inches (30.48 cm) diagonal
Screen Capacity	1920 Characters
Number of Lines	24
Characters per Line	80
Character Generation	9 x 12 dot matrix
Character Code	128 ASCII character set – 32 character line drawing set optional
Refresh Rate	Line Frequency (50 or 60Hz)
Scan Method	Raster
Phosphor	P4 White
Cursor	Reverse Video Block
Data Entry	Cursor determined or bottom line scroll upward if in scroll mode
Communications Interface	RS232C/CCITT-V24
Transmission Mode	Half or Full Duplex (switch selectable), Full Duplex Standard
Baud Rates	75, 110, 200, 300, 600, 1200, 1800, 2400, 4800, 7200 and 9600 (switch selectable)
Character Format	10 or 11 bit
Parity	Odd, Even, Mark Space (switch selectable)
Stop Bits	One or Two (switch selectable)
Printer Interface (optional)	RS232C/CCITT-V24 or 20 ma current loop. Baud rates of 75, 110, 200, 300, 600, 1200, 1800, 2400, 4800, 7200 and 9600
Field Attributes	Protect Data Numeric Data Only Half Intensity Display Inverse Video Display Blink Display Non-Display
Send Modes	Send All Data Send Unprotected Data Send Modified Data Send "Request to Send" header
Keyboard	Typewriter Pad – Alpha- numeric, Punctuation, Shift, Shiftlock, Repeat, Return and Backspace. Editing Pad – Insert character string, Delete character, Insert Line, Delete Line, Clear All, Clear Non-Protected and Clear Line/Field. Cursor Control Pad – Up, Down, Left, Right and Home. Numeric Pad – 0 through 9, comma and period.

Tab Keys – Set Tab, Clear Tab,
Tab and Back tab.
Mode Control Pad – Local,
Upper Case Only, Auto Line
Feed, New Line Enable, Break,
Here Is, Reset and Scroll Enable.
Printer Control Keys – Print
All and Print Line.
Sent Keys – Send Line, Send
Page, Send Message.
Function Key Pad (optional) –
16 function keys with 32
unique codes using shift.

Dimensions

Height	19.5 inches (49.5 cm)
Width	21.5 inches (54.6 cm)
Depth	23.5 inches (59.7 cm)

Weight

50 pounds (22.7 kg) (shipping)

Power

115 VAC ± 10%, 60 Hz
230 VAC ± 10%, 50 Hz

Environmental

Temperature

0 to 45° C operating

Humidity

0 to 80%, no condensation

INTERDATA PRODUCT NUMBERS

M46-041	Model 1200 Display Terminal, 1920 character fully buffered display with com- plete editing controls, numeric pad, page and conversational modes, 128 character ASCII set. Operates at speeds to 9600 baud via RS232C line interface. 60 Hz.
M46-042	Same as M46-041. 50 Hz.
M46-046	Model 1200 Display Terminal, 1920 character fully buffered display with complete editing controls, numeric pad, page and conversational modes, 128 character ASCII set, function keyset providing 16 keys with 32 function codes. Operates at speeds to 9600 baud via RS232C line interface. 60 Hz.
M46-048	Same as M46-046. 50 Hz.
M46-044	Printer port for local hard copy device, RS232C direct communication.
M46-045	Printer port for local hard copy device, 20 ma current loop direct communication.
M46-050	Line drawing character set to permit form and graph screen formats.

The information contained herein is intended to be a general description and is subject to change with product enhancement.