



NORD
COMPUTER SYSTEMS



ND 241S DISPLAY TERMINAL VISUAL 200

INTRODUCTION

The ND 241S is a low cost microprocessor based video display terminal which truly stands above competitive teletype compatible terminals in its price range.

In addition to the most popular features available on competitive terminals, such as numeric pad, upper/lower case, editing, current loop, cursor addressing, columnar and field tab, etc., standard features which set the ND 241S apart and reach the optimum in human engineering and operator comfort include:

- Detachable keyboard
- Smooth scroll
- Tilt and swivel screen
- Large 7 x 9 dot matrix characters

Reliability designed into the ND 214S is evidenced by its solid state keyboard, single P.C. Board and self test diagnostics on power up.

FEATURES

- 24 x 80 screen format
- 7 x 9 dot matrix
- Upper/lower case
- Numeric pad
- Background/foreground
- Blink line
- Insert/delete line and character
- Columnar and field tab
- Set/clear tab

- Clear end line, field and page
- Clear line
- Clear screen
- Line drawing
- Current loop, CCITT V.24 or RS-232C interface
- Composite video
- Serial copy port
- Hold screen
- Baud rates up to 19200
- Self test
- Cursor addressing
- Cursor control keys
- Read cursor address
- Typamatic keys
- Smooth scroll
- Microprocessor
- Detachable keyboard
- Solid state keyboard
- Read terminal status
- Tilt and swivel screen

PRODUCT DESCRIPTION

Modes of Operation

With the standard Norsk Data interfaces, the ND 241S is operated in full duplex mode.

The ND 241S operates in character by character (conversational) mode. Serial asynchronous 110 to 19200 bps switch selectable.

Cursor Control

The cursor is directly addressable. Underscore blink.

Terminal Functions

Cursor: Left, Right, Up, Down, Home, Address; Up Scroll; Erase: End of Line, Page or Field; Clear: Line or Page; Tab; Back Tab; Insert Character; Delete Character; Set & Reset Columnar Tab; Set/Reset Print Copy; Set/Reset Print Only, Print Page; Set/Reset Background; Blink Line; Set/Reset Line Drawing; Read Cursor Address; Read Terminal Status.

Keyboard

Detachable solid state typewriter keyboard, Typamatic repeat, numeric pad, function keys, caps lock.

Keyboard is equipped with palm rest in solid oak.

Code Set

Full ASCII code set. 95 ASCII character set (33 not printing codes).

Interface

The ND 241S is interfaced to a NORD computer via a 20 mA current loop interface (ND 271, ND 272) or the CCITT V.24 (EIA RS-232C) standard connection via modems and modem interface (ND 702, ND 711). A start/stop character format with two stop bits (11 bit code) is used. Parity bit generation and error detection use even parity. Transmission speed is switch selectable from 110 to 19200 baud.

SPECIFICATIONS

Display terminal . Visual 200
TTY compatible, Z80 micro-processor based

Display Characteristics

Screen size 305 mm (12") diagonal
Screen presentation
Non-glare CRT.
Composite video output for use with external video monitor.
Screen is equipped with a coloured antireflection filter.

Characters per line 80
Number of lines . . 24

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Cursor Underscore blink. Cursor is directly addressable.

Character generation 7 x 9 dot matrix, 2 dot lower case extenders

Character set 95 standard

Display modes Underline and normal

Refresh rate 50 Hz

Transmission

Input/output Conforms to EIA RS-232C and CCITT V.24 (modem) (15 m). Teletype current loop 20 mA with built-in floating power supply and optocouplers (600 m).

Mode Asynchronous character by character full duplex as standard.

Code US ASCII

Data rate Switch selectable 100-200-300-1200-2400-4800-9600-19200 baud.

Parity Even

Stop bits One or two, switch selectable

Transmission status given by LED-indicators on keyboard.

Physical and Electrical Specifications

Power 220V ±15%, 50 Hz

Cabinet dimensions:

Width 432 mm (17")

Height 331 mm (13")

Depth 535 mm (21")

Keyboard dimensions:

Width 420 mm (16,5")

Height 70 mm (2,8")

Depth 270 mm (10,6")

Other Specifications

Autible alarm On receipt of BEL code from computer or keyboard

Operator controls:

Side panels Power on/off, display contrast

Rear panel Baud rate, parity, emulation mode, page/roll, half/full duplex, 50/60 Hz, normal/reverse video, auto new line, CR new line

Keyboard Caps lock, line/local

Indicators Lighted caps lock on keyboard; Lighted line/local on keyboard

Diagnostics Memory self test on power up

Note: NORSK DATA reserves the right to change specifications at any time without given notice.