



**Model 16N (N designates one of four available enclosure styles)**

## Multi-Page Editor “The User- Definable Terminal”

The Model 16 easily outperforms any other smart, editing terminal . . . and it does it with user-convenience and style. Keys can be redefined for particular applications or user preferences; display memory can be “reassigned” to provide additional function memory; logical line length can be defined to be as short as 20

or as long as 255 columns; four different character sets can be displayed; its 25th line can be used to display time, calculations and computer messages, as well as feature selection and terminal status. And much more. The overall result is that the Model 16 user enjoys an entirely new measure of application flexibility and authority over his terminal.

## Features

- Four-page (optionally eight-page) display memory — volatile or non-volatile
- 512-character, non-volatile function memory — 32 programmable functions
- Display memory (non-volatile) redefinable as additional function memory
- 32 macro keys (64, shifted) — may be recoded to perform any character or control sequence operation
- Logical line and page length
- Smooth horizontal scrolling
- Four displayable character sets (256 characters, total), including line drawing and mosaic graphics
- Calculator mode
- Time of day/elapsed time clock
- 25th display line — terminal status, self-test, computer messages, calculations and time readout
- Easy feature selection — either full-page menu (all features) or 25th line menu (individual feature categories)
- Smooth vertical scrolling — six or twelve lines per second
- Display attributes — dim, underline, blink, inverse video and blank — any combination
- Protect mode
- Area qualification — alpha only, numeric only, right justify and must-fill fields
- Split screen — selectable window
- Transmit character, line, window, page, memory and selected area — unprotected or all data
- Full-performance, bi-directional auxiliary port
- Insert/delete line, character and word
- Repeat previous operation
- Reinstate last-deleted line or word
- Monitor mode
- Answerback message — 20 characters, programmable
- Terminal identifier message — 20 characters, programmable
- Screen saver

# Model 16

## Keyboard



## Ergonomics

- Non-glare 12 or 15 inch screen
- White, green or amber CRT
- Adjustable viewing angle (optional)
- Keyboard adjustable screen brightness
- Detached sculptured keyboard — matte-finish keys
- “Deep-dish” home keys
- “Dimpled” 5 key on calculator/numeric pad
- Keyboard palm rest (optional)
- Selectable keyclick
- Silent and cool operation
- UL and CSA listed

## Specifications

### COMMUNICATIONS

- Interface — EIA RS232C
- Protocol — serial, asynchronous
- Duplex — half and full (with or without local echo)
- Input buffer — 256 characters
- ANSI X3.64-compatible
- Character code — 128 ASCII
- Data transfer rates — 50 to 19,200 baud (15 rates)
- Parity — even, odd, mark, space, none

### DISPLAY

- Type — CRT (12”), white phosphor (P4)
- Presentation — light characters on dark background; inverse, programmable
- Display area — 6” high x 8-1/2” wide (152 x 216 mm)
- Format — 24 lines x 80 columns, plus 25th (information) line
- Refresh rate — 50/60 Hz, programmable
- Character formation — variable matrix with descenders, in 8 x 10 dot field, plus contiguous graphics
- 256 displayable characters — 96 ASCII, 32 control characters, 64 mosaic graphics, 64 line drawing and special symbol characters
- Character size — 0.2” high x 0.1” wide (5.0 x 2.6mm)
- Cursor — any ASCII or graphics character, blinking or steady

### KEYBOARD

- Detached; plug-in, coiled-cord cable
- Type — 75-key typewriter-style, plus 18-key calculator/numeric pad
- Switches — contact-type
- Rollover — N-key
- Auto repeat, 15 or 30 CPS
- Indicators — three status LEDs, plus four, user-definable

### POWER

- 115 or 230 VAC, 50/60 Hz
- 40 watts
- 137 BTU/hour

### ENVIRONMENTAL

- Operating temperature — 40 to 115°F (4 to 46°C)
- Storage temperature — -40 to 149°F (-40 to 65°C)
- Relative humidity — 10 to 90%, non-condensing

### PACKAGING (N-STYLE)\*

- Weight — 30 lbs (13.6 kg)
- Size — Display: 15” high (381mm)  
17” wide (432mm)  
17” deep (432mm)  
Keyboard: 2-5/8” high (67mm)  
18-1/2” wide (470mm)  
8” deep (203mm)

\*plus three alternate styles — M (metal enclosure), C (executive enclosure) and R (rack mount)

### OPTIONS

- Four additional pages (eight total) volatile display memory
- Standard four page display memory — non-volatile (battery back-up)
- Eight page display memory — non-volatile (battery back-up)
- Current loop interface (in addition to RS232C)
- Composite video output (15.9 KHz horizontal scan rate)
- 15” CRT (N enclosure)
- 9” CRT (C enclosure)
- Green or amber CRT
- Tilt base (N-enclosure)
- Keyboard palm rest

**TELERAY**  
DIVISION OF RESEARCH INC  
BOX 24064 MINNEAPOLIS, MINN 55424  
(612) 941-3300