

4025 Computer Display Terminal

From Alphanumerics to Graphics. Now your terminals can keep pace with your needs.

The 4025 takes you beyond alphanumerics. When you're ready to go beyond data entry and editing, the 4025 is the terminal that can take you there. The 4025 gives you the unique ability to expand your terminal from basic alphanumerics, to forms ruling and then into graphics. No other terminal has such versatility. With all its options, the 4025 provides unmatched report generation capability.

4025 Specifications

Display mechanism:

Display type — Video monitor

Screen size — 30 cm (12 in) diagonal

Usable display area — 16.2 cm x 21.6 cm (6.4 in. x 9 in.)

Phosphor type — P39 green phosphor

Video bandwidth — 20 MHz

Raster lines — Standard 525 line scan, with 480 lines displayed.

Scan — 30 Hz

Refresh rate:

Dot — 30 times/second

Frame — 30 times/second

Field — 60 times/second

Display characteristics:

Cursor type — Wide underscore

Character size — 7 x 9 in a 8 x 14 dot matrix

(Graphics cells are 8 x 14 matrix)

Character sets:

Standard — 64/96 upper and lower case ASCII.

Optional — 64 characters each, to a maximum of 6 character sets; or 128 characters each, to a maximum of 3 character sets. Can include rulings or math characters, for example.

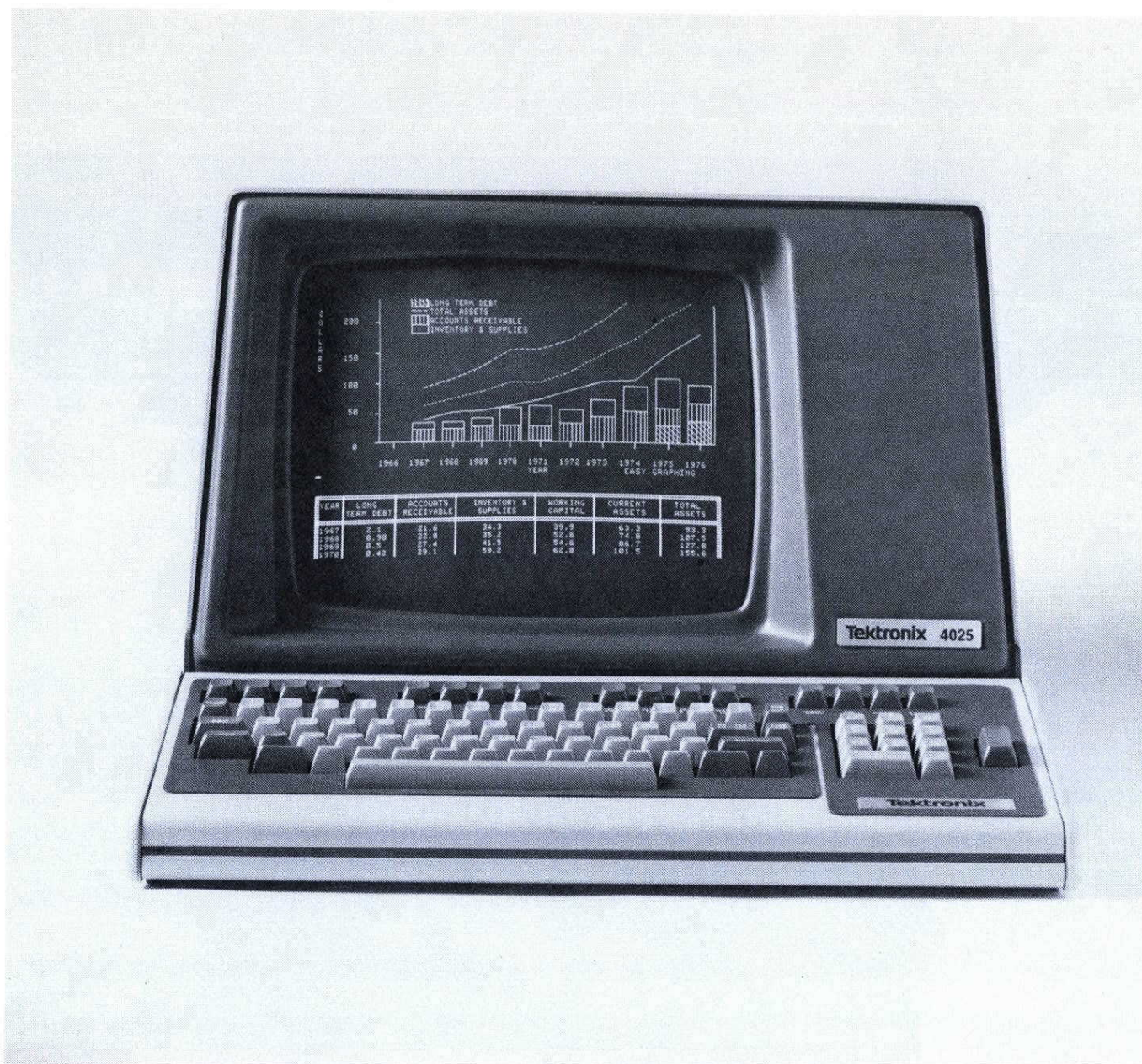
With the graphics option. Up to 31 character sets can be defined by the user.

Characters/line — 80

Lines/display — 34

Total characters/display — 2720

Visual attributes — Characters can be displayed with shaded background, inverted fields (dark on light background rather than light on dark background), or underlines. In addition, the display can "blink" (alternate) between combinations of visual attributes.



Logical attributes — Fields can be protected, modified, alphanumeric, and numeric only.

Interface characteristics:

Transmission speed — The transmitting and receiving baud rates are independently selectable up to 9600 baud. Baud rates can be entered from the keyboard or the host computer.

Interface with the host computer:

Standard — RS-232-C full duplex

Option 1 — RS-232-C half duplex, with or without supervisory channel.

Option 2 — 20 mA current loop

Option 10 — Polling Interface permits multiple terminal configurations on one host communication line. Terminal interface is current loop using 4020 Series Polling Protocol. Communications buffered or unbuffered.

Option 11 — Polling Controller — IBM 3270 compatible. Converts IBM 3270 protocol to 4020 Series polling protocol. Will drive Option 10. Provides control for up to eight terminals in a polling system.

Buffering and editing capabilities:

Size of display memory — 4K bytes standard; may be expanded to 8K (Option 20), 16K (Option 21), or 32K (Option 22).

Parts of memory —

Monitor — Holds and displays conversational text such as conversations between the user and the host computer, or commands to the 4025.

Workspace — Holds and displays text, forms, and graphics. One or several pages of text can be saved in the workspace, edited, and later sent to the host or to a peripheral.

Keyboard Specifications:

Number of keys — 86

Lighted keys — 4 (Insert mode, TTY lock, Numeric lock, Command lockout)

Programmable keys — 80

Major keyboard functions — Typewriter keys, terminal function control, programmable function keys, numeric pad, cursor control, scrolling.

Tactile features — Curved profile, tactile feedback at typing "home" position.

Relationship to display —
Detachable, flexible (8 foot) cable.
Editing keys: Delete character,
Delete line,
Erase and skip
Insert line, and
Insert mode.

Graphic specifications

Amount of Graphics Memory:
Option 23 — 4096 8-bit words
(covers 256 cells).
Option 24 — 8192 8-bit words
(covers 512 cells).
Option 25 — 16384 8-bit words
(covers 1024 cells).
Option 26 — 32768 8-bit words
(covers 2048 cells).

The maximum amount of graphics memory that may be needed depends on the number of graphics "cells" (character positions) in the part of workspace used for holding the graph. Display memory is also required to put graphics in the workspace.

Line types: Solid lines, Seven styles of dashed lines, Single points, and "Dark vectors", which erase lines previously drawn.

Type of display — Dot matrix: each graphics cell (character position) has 14 rows of 8 dots each.

Resolution — 28 addressable points/cm.

User definable Character Sets

Up to 16 fonts may be defined by the operator or the host computer.
Characters per font — 128 (or two sets of 64 each).

Number of fonts available:

- Option 23 — 2.
- Option 24 — 4.
- Option 25 — 8.
- Option 26 — 16.

Option 31 — Character set Expansion option — permits addition of up to 6 character sets (64 characters), or three 128-character sets.

Option 32 — Ruling Characters — Optional character set which contains the special characters used to rule forms.

Option 34 — Math Characters — Optional character set which provides the special characters most commonly used in mathematics (includes special symbols and Greek letters).

Option 35 — ROM Option — required for the addition of multiple options. Refer to the option summary for list of options requiring the ROM option board.

Option 41 — Self Test — The standard 4025 performs an automatic "self test" on power-up. This test verifies the initial status, memory, and operating parameters. The optional self test feature provides additional testing capabilities to verify options and peripheral availability.

Power requirements:

Line plug and power cord — 15 ampere capability, detached

Input line voltages —

Standard —

- 115 VAC, 3A
- 90-100 V (low)
- 105-125 V (med)
- 112-136 V (high)

Option 48 —

- 220 VAC, 1.5 A
- 180-220 V (low)
- 208-252 V (med)
- 224-272 V (high)

Line frequency — 49 to 63 Hz

Power consumption — 295 W maximum at 125 VAC

Safety recognition — Listed by Underwriters Laboratories under the following standards:

- 114 — Office Appliances
- 478 — Electronic Data Processing Units and Systems

Also certified by Canadian standards Association under standard C22.2 No. 154.

Physical characteristics:

Weight — 27.2 kg (60 lbs.)

Dimensions:

Cabinet:

- Height — 31.7 cm (12.5 in.)
- Width — 44.5 cm (17.5 in.)
- Depth — 54 cm (21.25 in.)

Keyboard:

- Height — 7.6 cm (3 in.)
- Width — 45.7 cm (18 in.)
- Depth — 23.5 cm (9.25 in.)

Environmental:

Temperature —

- 60 to +50° C (Storage)
- +10 to +40° C (Operating)

Humidity — 0 to 95% (Storage)
0 to 70% (Operating)

Altitude — to 50,000 feet (Storage)
to 15,000 feet (Operating)

4025 Option Summary

Option:

1 Half Duplex Interface (see note 2)	\$140
2 Current Loop Interface	\$230
3 RS-232-C Peripheral Interface (Transmit Only). See Note 1. . .	\$300
4 GPIB Peripheral Interface (see note 1)	\$400
10 Polling Interface	\$250
11 Polling Controller	\$2,000
20 8K bytes of Display Memory . .	\$250
21 16K bytes of Display Memory .	\$750
22 32K bytes of Display Memory	\$1750
23 4K bytes of Graphics Memory (note 2)	\$550
24 8K bytes of Graphics Memory (note 2)	\$800
25 16K bytes of Graphics Memory (note 2)	\$1300
26 32K bytes of Graphics Memory (note 2)	\$2300
31 Character Set Expansion	\$250
32 Ruling Characters (note 3) . . .	\$150
34 Math Characters (note 3)	\$100
35 ROM Expansion	\$100
36 Peripherals (Used with options 3 and 4) see note 2.	\$150
40 Hard Copy and Video Output . .	\$70
41 Self Test (note 2 & 4)	\$100
48 220 Volts, 50Hz	No charge

Notes:

1. Requires options 35 and 36
2. Requires option 35
3. Requires option 31
4. Option 1 & 41 cannot be configured together.

Ordering Information

4025 Computer Display Terminal . . \$3595