



N391

**SERIES 9050 ALPHA
NUMERIC DISPLAY
SYSTEMS**

FEATURES

- High-speed, interactive Communications
- Local or Remote Operations
- Up to 1920 Characters Displayed
- Self-contained Memory

PRODUCT BULLETIN

Datacraft®

The Series 9050 Display Systems offer the user flexible, high speed interactive communications between computer and display terminal. Designed for local or remote operation, the terminals permit composing, editing, reviewing and updating of computer organized data.

Of the four models available; two (Models 9050 and 9051) are of the polled, buffered, message oriented type while the other two (Models 9055 and 9056) are of the conversational, teletypewriter replaceable type.

The 9050 and 9051 Models feature multiple station data entry from one serial I/O channel. The computer may address one or more terminals at random and, in addition, poll them individually to determine if a message is ready to be transmitted. In single terminal applications, the transmit key optionally causes transmission of an entire message or a single "message ready" code. Message oriented, buffered operation of the 9050 and 9051 Models permits composing, editing and correcting messages off-line and then transmitting the data to the Central Processing Unit (CPU) at maximum speeds from remotely located terminals. On-line time is further reduced by the terminal's cursor address readout to the CPU and the ability of the CPU to position the terminal's cursor by line and column.

Plug-for-plug TTY replacement is the feature of the 9055 and 9056 Models. Time sharing and on-line communications service keynotes these models to transmit data at one speed and receive at another. As a result, the

terminal can send and/or receive data at higher speeds than the normal 110 to 300 baud rates. In addition to conventional bottom line data entry and line feed, these models offer automatic carriage return and line feed to eliminate end-of-line hang-ups. Automatic line feed is also provided in the local mode.

Employing the latest MOS circuitry, the terminals display a full ASCII code of 64 characters, each in a 5 x 7 dot matrix. Since data composition and modification requires a special complement of controls, "Blink", "Protect", and "Field Tab" functions are provided at no extra cost. Designed for ultra-quiet operation, including the separate keyboard, the Series 9050 Display Systems will never be a noisy intruder in a thinking environment. Specially designed, RS-232 compatible asynchronous interface controllers, mounted within an equipment stand, are available for the desk-top display terminals which can be remotely located up to 1000 feet. The interfaces are capable of handling serial baud rates, switch selectable, from 110 to 9600.

SOFTWARE

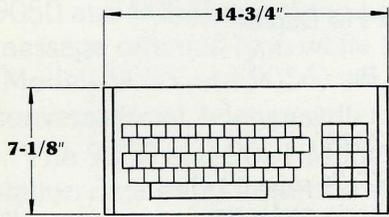
In addition to the standard TTY replaceable diagnostic, five operating system programs are available to fully utilize the hardware capabilities of the Series 9050 Alpha Numeric Display Systems. These systems include the Resident Operating System (ROS), Tape Operating System (TOS), Disc Operating System (DOS), the Disc Monitor System (DMS) and the Virtual Core Management Operating System (VULCAN).

SPECIFICATIONS

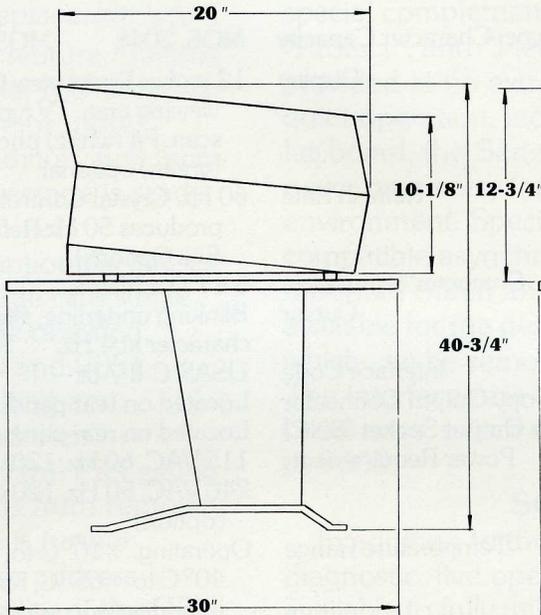
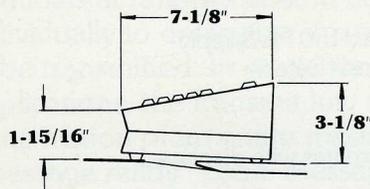
DESCRIPTION	MODELS	
	9050 9051	9055 9056
Screen Capacity, Characters	1920	1728/1920
Characters per Line, Number of Lines	80/24	72/24 or 80/24
Character Size (Height x Width)	0.20 x 0.08 in.	0.20 x 0.08 in. (80/24)
Displayable Characters (Including Space)	67	64
Cursor Controls and Cursor Positioning by CPU	Yes	No
Cursor Address	Readable	No
Bottom Line Entry	No	Yes
Edit Capability	Yes	No
Field Tab	Yes	No
"Blink" and "Protect"	Yes	No
Black on White Display	Yes	No

	DESCRIPTION	MODELS	
		9050 9051	9055 9056
INTERFACE			
	I/O Asynchronous	TTL RS-232	TTL RS-232 20/60 ma
	Serial (Baud Rates — Switch Selectable)	110-9600	110-9600
	Parallel Rate (Characters per Second)		
	Transmit Mode (Switch Selectable)	Full Duplex	Half or Full Duplex
	Party Line (Multi-Station)	Yes	
	Transmission Format	10/11 Bit	10/11 Bit
MEMORY			
	Type, Character Capacity	MOS, 2048	MOS, 2048
	Display	12 inches Direct view CRT, 74 square inches viewing area. TV type horizontal raster scan. P4 (white) phosphor standard. P31 (green) optional.	
	Refresh Rate	60 Hz. Crystal Controlled (50 Hz Supply produces 50 Hz Refresh Rate — See Options).	
	Character Generation	5 x 7 Dot Matrix.	
	Cursor	Blinking underline, alternates with displayed character at 4 Hz.	
	Interface Code	USAS C II 7-bit	
	Hard Copy Output Connector	Located on rear panel.	
	Remote Monitor Output Socket (BNC)	Located on rear panel.	
	Power Requirements	115 VAC, 60 Hz, 120 watts maximum 240 VAC, 50 Hz, 120 watts maximum (option).	
	Temperature Range	Operating, +10°C to +40°C; storage, —40°C to +65°C; both at 80% relative humidity (non condensing).	
Dimensions (With Optional Stand)			
	Height	40 ³ / ₄ inches	40 ³ / ₄ inches.
	Width	48 inches	48 inches.
	Depth	30 inches	30 inches.
Dimensions (Without Stand)			
	Height	13 inches	13 inches.
	Width	17 ¹ / ₈ inches	17 ¹ / ₈ inches.
	Depth	19 ³ / ₄ inches	19 ³ / ₄ inches.
Shipping Weight (With Optional Stand)			
	Approximate	155 pounds	155 pounds.
Shipping Weight (Without Stand)			
	Approximate	68 pounds	68 pounds.

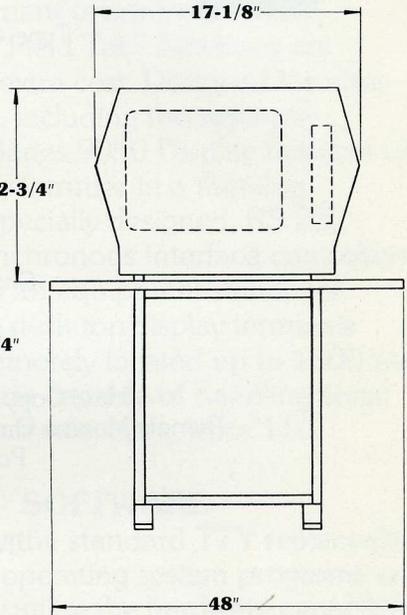
Specifications subject to change without written notice.



KEYBOARD



SIDE



FRONT

Datacraft®

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