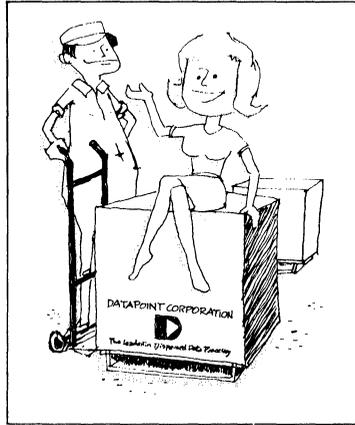


Pre-installation guide.
Datapoint
dispersed data
processing
systems.



DATAPOINT CORPORATION



The leader in dispersed data processing™

Congratulations on your choice of Datapoint equipment

You are now the proud user of the most modern, innovative and advanced dispersed data processing equipment that is available today. The following checklist is for your convenience in preparing for your new system and in insuring long, productive service from it. By taking these advance steps and observing the precautions indicated, you'll help achieve the most efficient operation possible from your new Datapoint equipment.



Checklist

- | | |
|---|---------|
| <input type="checkbox"/> Site preparation and environment | Page 4 |
| <input type="checkbox"/> Power requirements | Page 5 |
| <input type="checkbox"/> Datapoint product specifications | Page 6 |
| for your planning needs | |
| Cassette magnetic tape/diskettes | |
| 7 and 9 track magnetic tape | |
| Cartridge disk system | |
| Printers | |
| Mass storage disk system | |
| Diskette system | |
| <input type="checkbox"/> Training | Page 9 |
| <input type="checkbox"/> Ordering software | Page 9 |
| <input type="checkbox"/> Replacement items and supplies | Page 9 |
| <input type="checkbox"/> Communication interface equipment | Page 12 |
| <input type="checkbox"/> Pointers for handling diskettes | Page 14 |
| <input type="checkbox"/> Minimizing static discharge problems | Page 15 |
| <input type="checkbox"/> Support literature | Page 17 |
| <input type="checkbox"/> Customer support | Page 18 |
| <input type="checkbox"/> Datapoint product line | Page 19 |
| <input type="checkbox"/> Supplies order form | Page 21 |

Site preparation and environment

Room Size

Determination of proper room size to house your new equipment should take into account both space required by the equipment and the general work and access area. Assuming the width of the room is no less than 1/3 of the length, a useful rule of thumb is that the square feet of the equipment times (x) 5 will give you the minimum number of feet necessary for the proper use of the equipment. Don't place the equipment directly against the wall if it can be avoided. Several inches of clearance will improve ventilation and prevent heat buildups.

Printers and disks must have 24 inches of clearance behind the equipment. This allows room for the paper to stack behind the printers. This space is required behind disk drives to allow for maintenance access. Moving disks after alignment can cause the disks to get out of alignment.

Flooring

The floor should not be covered with carpeting, unless it is a good grade of anti-static carpeting that has less than 2KV of static build-up. You can identify anti-static carpeting by its metal fibers or the clear plastic strands imbedded in the carpet pile. Anti-static carpet is recommended, if carpeting is to be used.*

*Section on Static Discharge Problems is on Page 15.

Air Conditioning

The area in which the new equipment is to be placed must be as clean and dust free as possible. A filtered, recirculating air conditioning system is desirable for most applications and it is mandatory for all applications using disk systems.

Temperature

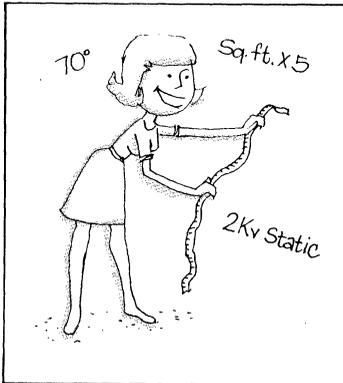
The room temperature should be between 65° and 80° F. Datapoint equipment operates best at the same temperatures in which people operate best. The maximum temperature change should not exceed 15° F per hour for disk systems.

Humidity

The relative humidity should be no lower than 40% nor higher than 70%.

Storage

If the system is going to be stored without operation, the optimum temperature limits are -- 20° F to 130° F and 10% to 90% humidity. In no case should moisture be allowed to condense on the machine.



Power requirements

Some Possible Effects of Electrical Power Variations

"Due to possible voltage drops along the line between the service entrance of the building and the computer equipment connections, the steady state voltage can be down -9% by the time it reaches these connections. On top of this, large loads coming on line can drive the voltage down 20% or more for 30 milliseconds, which exceeds most computers' tolerances of dips or surges of 20% for less than 30 milliseconds."

"Transient voltages usually last for less than 0.5 of a second and may surge impressive amounts above or below the nominal utility voltages. (Engineers) have monitored surge voltages in residential sites as high as 2500 volts, generated internally; and 5600 volts, generated externally (lightning). They also monitored high voltage surges (300-2700 volts) in hospital and department store sites. Unprotected computers in these kinds of situations could obviously suffer severe problems."

"Surveys showed that regardless of the location of a computer site in the country, the number of high speed fluctuations in utility line voltages was virtually constant (in some cases, average daily fluctuation rates ranged from five to ten dips or surges over equipment design limits.)"

Datapoint recognizes the problems pointed out in the preceding quotes. For the convenience of our customers, Datapoint has available for order a 115 volt, 1 KVA Small Computer Voltage Regulator. The appropriate number of regulators should be selected and ordered before installation of your new equipment. Installation of this voltage regulator will eliminate all power problems that are less than 3 milliseconds in duration. Extended power drops and "Brown outs" that are below 79 VAC will not be helped by this device. Fortunately, the majority of power problems that cause unpredictable systems reactions do fall in the short duration category and are eliminated by this Small Computer Regulator. See the Equipment Catalog for details.

*The above passages are excerpted from "The Effects of Electrical Power Variations Upon Computers: An Overview." Published by the U.S. Department of Commerce, Domestic and International Business Administration, Bureau of Domestic Commerce. The complete document is available at your local library or from the Superintendent of Documents, Government Printing Office, Washington, D.C. 20402. (Price \$.55)

Datapoint Product Specifications for your planning needs

Systems Component	Description	Dimensions	Required Clearances	Watts	BTU/Hr	Peak Load Current (see note)
Cassette 1100	Processor	20" deep 19" wide 10" high	30" front 6" rear	210	750	
Diskette 1100	Processor	53.0" wide 28.0" high 24.0" deep	30" front 24" rear	365	1100	
5500	Processor	20" deep 19" wide 10" high	30" front 6" rear	210	750	
2200	Processor	20" deep 19" wide 10" high	30" front 6" rear	210	750	
924x	Printer (Centronics)	11.4" high 21.0" deep 28.0" wide	30" front 24" rear	375	1200	7.0
9250	Servo (Printer) (Console)	53.0" wide 24.0" deep 13.0" for paper stacker 35.0" high	30" front 24" rear	150	525	3.0
9251	Servo Printer Freestanding (stand alone)	36.0" wide 24.0" deep 13.0" for paper stacker 35" high	30" front 24" rear	150	525	3.0
9280 9281	300 Line/Min Printer	45" high 32" wide 22" deep	30" front 24" rear	525	1800	20.0
9260 9261	600 Line/Min Printer	45" high 32" wide 22" deep	30" front 24" rear	680	2000	20.0
929x	Belt Printer	37" high 20.5" wide 23" deep	30" front 24" rear	250	700	5.0
9550	Tape 7-9 track	36.5" high 52.5" wide 22.7" deep	30" front 24" rear	300	1025	5.0
9551	Tape 7-9 track	36.5" high 29.4" wide 22.7" deep	30" front 24" rear	300	1025	5.0

continued on next page

Systems Component	Description	Dimensions	Required Clearances	Watts	BTU/Hr	Peak Load Current (see note)
9580	Tape 1600 BPI	28" high 53" wide 24" deep	30" front 24" rear	450	1600	6.0
9581	Tape 1600 BPI	28" high 36" wide 24" deep	30" front 24" rear	450	1600	6.0
9350	Cartridge Disk (Console)	28" high 53" wide 24" deep	30" front 24" rear	350	900	5.0
9351	Cartridge Disk (Free Standing)	28" high 36" wide 24" deep	30" front 24" rear	350	900	5.0
9354	Cartridge Disk Extension Drive	28" high 36" wide 24" deep	30" front 24" rear	250	700	4.0
9504	Card Reader	11" high 19.3" wide 14" deep	30" front 6" rear	200	700	4.0
350x	Display Terminal	14" high 18" wide 18" deep	30" front 6" rear	200	700	
9370	Mass Storage Disk Controller	28" high 28" wide 24" deep	30" front 24" rear	220	750	
9371	Mass Storage Disk	39" high 30" wide 24" deep	30" front 36" rear	1100	4283	25.0
9376	Mass Storage Disk Drive Extension	39" high 30" wide 24" deep	30" front 36" rear	1100	4283	25.0
9381	Diskette (Console)	28" high 53" wide 24" deep	30" front 24" rear	165	600	3.0
9385	Diskette (Free Standing)	28" high 36" wide 24" deep	30" front 24" rear	165	600	3.0

continued on next page

Product specs, continued

Systems Component	Description	Dimensions	Required Clearances	Watts	BTU/Hr	Peak Load Current (see note)
94xx	Communications Adaptor	2 3/4" high 10 1/4" wide 15 1/2" deep	*	25	70	
946x	Multi-Port	2 1/4" high 10 1/4" wide 18" deep	*	30	80	
948x	Multi-function Communications Interface	5" high 10" wide 17" deep	*	125	400	
9455	Multi-card Adaptor Housing	7" high 10" wide 18" deep	*	100	350	

*These devices normally mount on the rear of a console.

For most Datapoint systems the primary electrical power should be 115±11.5 volts alternating current, at 60 Hz frequency ±2%.

The 115 VAC circuit must have a frame ground connection to earth ground, utilizing a separate wire conductor, not the electrical conduit. (standard grounded convenience outlet).

The 9370 Mass Storage Disk System requires all 3 phases of AC power with a minimum of 187 VAC per phase and a maximum of 242 VAC per phase measured at the wall outlet. The wall outlet must be a BRYANT 71530 FR. A fourth conductor must be provided for earth ground.

NOTE:

The Peak Load Current column indicates the initial surge current, when devices which use large motors are started. Motor start type breakers or fuses designed for high current surges must be used.

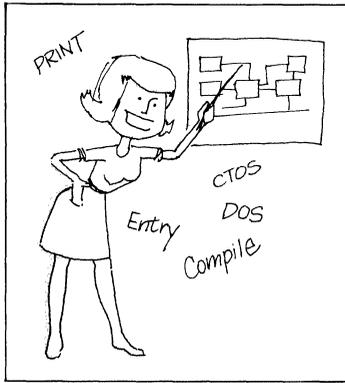
Shared Power Lines

Your Datapoint system should have a "dedicated" circuit. No other equipment should be plugged into this circuit. In installations that include the Mass Storage Disk system, two circuits will be required: one 115 VAC circuit and one 230 VAC 4-wire 3-phase circuit.

Moving Datapoint Equipment

After Datapoint equipment is installed, a service call will be required to disconnect or change any system cabling (re-configuring) or to relocate any Datapoint equipment. Equipment can be damaged or misaligned when improperly moved. Datapoint equipment should be moved, reconfigured, and maintained by trained Datapoint Customer Service Representatives ONLY.

Training



Software

Datapoint offers software training for programmers and other users at our Education Center in San Antonio. A brochure with the training schedule is available on request. To make reservations, or for further information, please contact the Marketing Department, Datapoint Corporation, San Antonio, Texas.

Hardware

Most Datapoint customers are on maintenance contracts, so hardware service training is offered only on a limited basis from Datapoint. If you have any questions or problems, please contact our Customer Service Department, Datapoint Corporation, 9725 Datapoint Drive, San Antonio, Texas 78284.

Ordering software

Systems software orders should be placed with the equipment order, but in case you did not place the order, or require additional software, call 512-690-7374 or send a letter to:

Software Support
9725 Datapoint Drive
San Antonio, Texas 78284

listing the software you require. You may want to send an open Purchase Order for automatic distribution of any future releases of the software you specify. Software Support also fills orders for software documentation.

Replacement items and supplies

To make sure your Datapoint equipment is always ready to go when you are, here is a list of replacement items and supplies you should always have on hand. To place your order, write to: Datapoint Corporation, Marketing Administration, 9725 Datapoint Drive, San Antonio, Texas 78284. (See page 19 of this brochure for an order form.)

Replacement items, continued

Cassette Magnetic Tape

Enough cassettes (80150) for programs and data plus two back up cassettes for all programs and any critical data. Be sure and use only Datapoint cassettes -- they're designed for this service.

NOTE:

Datapoint cannot guarantee proper equipment performance when cassettes not supplied by Datapoint are used in the Datapoint equipment. Datapoint quality checks each batch of cassettes before distribution to ensure media-equipment performance.

7 and 9 Track Magnetic Tape

Order enough tape for normal operation, and two back-ups for each data file.

NOTE:

This equipment uses 1/2 inch magnetic tape in reels 8 1/2 inches (some models will accommodate 10 1/2 inch reels) or smaller in diameter. Use tape certified for 3200 FCI preferably. A tape transport cleaning kit (80304) should also be ordered.

Cartridge Disk System (except fixed disk)

Sufficient disk packs for all programs and data plus two backups of all program and data disks (80362).

Calculate your maximum file size. If the length of a file is greater than can be stored on a cassette, it is strongly recommended that a second disk drive be ordered for the system to facilitate backups.

Printers (Select the type printer from the list below)

With any printer, order an adequate supply of paper from your local business forms supply house.

9200 Printer

Order a minimum of 6 Univac ink rollers (80201) or Singer ink rollers (80202)

924x Printer

Order a minimum of 2 extra ribbons (80240)

925x Printer

Order 2 extra print wheels of the type you use.

Courier (80270)

Pica (80271)

Elite (80272)

Order a minimum of 6 extra ribbons, either cloth (80260) or carbon (8-261)

928x/926x Line Printer

To insure proper adjustment of the printers when installed, you should make arrangements to have printer paper or forms available at installation of the equipment. Order a minimum of 2 extra ribbons (80392).

929x Belt Printer

Order a minimum of:

2 extra ribbons (80405)

1 re-inker (80406)

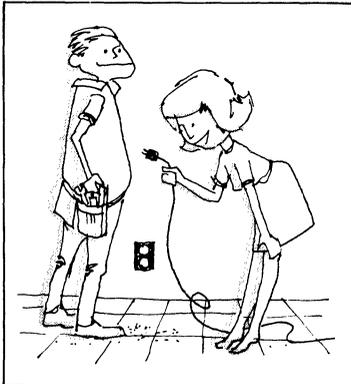
6 feet of standard 8 channel teletype paper or Mylar tape for VFU tape loops

Locally obtain paper (120 col.) or special forms that must be less than 120 columns wide (3" minimum to 12.84" maximum) and have available at installation time.

1 Hand paper tape punch if teletype is not available.

NOTE:

If you're using special forms or paper in your application, you should send a sample (50 each) to Customer Service for verification of proper printer operation with your forms.



Mass Storage Disk System

Arrange for 230 volt 3-phase power. Note that the starting current for each drive is approximately 25 amps. (30 amp circuit breakers).

Order sufficient disk packs for all programs and data files. Also provide for enough packs for the complete backup of all programs and vital data files.

Note that the large capacity of the 9370 disk drive generally precludes the use of tape or cassettes as an efficient backup media. It is strongly recommended that a second disk drive be ordered for the system to facilitate backups.

Order enough cassettes for boot-loading the operating system, backup of vital programs and operating systems.

Diskette Disk System

Order PREFORMATTED diskettes (80382) for all programs and files and provide for enough backup media. All diskettes shipped from Datapoint are preformatted. Unpreformatted diskettes will not work.

NOTE:

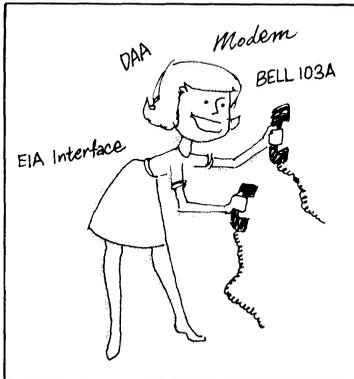
It is imperative that all persons operating or handling diskettes be thoroughly informed on the care and handling of diskette media. See the "Pointers for Handling Diskettes" section on page 14 of this pamphlet.

Replacement items, continued

NOTE:

Certain diskette media can be harmful to Datapoint diskette hardware.

For this reason, only IBM preformatted diskettes and Datapoint vended diskettes are approved for use in Datapoint equipment.



Communication interface equipment

Select the appropriate adaptor from the table below:

When using a Datapoint communications adaptor with internal modem, you must order the appropriate interface (Direct Access Arrangement) from the local telephone company. The configuration ordered will determine the exact devices required. The following is a list of interface equipment commonly used with each type of Datapoint device. (Explanations of notes are on the following pages.)

Communications

Adaptor	DAA Type Options	Modem Type	Option
9400	Not required	RS 232 compatible asynchronous modem	(note 1)
9401	1001A,B,D, (note 2)	Datapoint 103	No options available Transmit Level Adjust
9402	1001A,B,D, (note 2)	Datapoint 202	(note 3)
9403	(note 4)	Not required	
9404	(note 5)	RS 232 compatible synchronous modem with internal clock	(note 6)
9451	Same as 9400		
9452	Same as 9401		
9453	Same as 9402		
9450, 9455	(note 7)		

Items noted can be ordered from your local phone company. Other items can be obtained from Datapoint.

See explanation of footnotes on next page.

Explanation of communication equipment notes

1. No specific options necessary, except as required by application.
2. Order 1001B, D on new installations, a 1001A can be used but the customer must then specify that the Comm Interface (94xx) be optioned for a voltage with interface rather than a contact interface when using a Datapoint communications adaptor. Datapoint suggests the following DAA options (however, other configurations may be used as required):
 1. With telephone set
 2. Coupler controls line, Ringer connected on line side of exclusion key, both coupler and telephone ring.
 3. Datapoint supplies power for the DAA.
3. Standard factory settings:
 - a. 2-wire (4-wire available)
 - b. Clear to send delay 200 msec (60, 30, or 15 msec available)
 - c. Receiver acquisition time 40 msec (10 msec available)
 - d. Receiver clamp enabled
 - e. Transmit level -- 8db (0, -2, -4, -6, -10, and -12 db available)
4. Loop power is not supplied by Datapoint. Customer must specify when ordering 9403 desired mode of operation.
 - a. 60 and 20ma full duplex neutral
 - b. 60 and 20ma full duplex polar
 - c. 60 and 20ma half duplex neutral
 - d. 60 and 20ma half duplex polar
5. DAA required with non-bell modems. Type depends on modem used.
6. Datapoint required options:
 - a. Different configurations require unique Dataset options. Consult your local Datapoint SE for details.
7. These devices enable the user to connect more than two communications adaptors to a Datapoint processor as they contain internal power supplies. See equipment catalog.

Pointers for handling diskettes

These 8 pointers for the care and handling of diskette media could save you hours of otherwise "lost" time:

- Never mark on a diskette label with a ballpoint pen or a hard lead pencil because you can damage the surface of the diskette. This diskette may initially seem to work, but may have parity errors as a result of the indentation caused by the pressure of the pen or pencil on the diskette surface.
- Never erase a label, because the residue will get into the envelope and contaminate the recording surface.
- Diskettes not in the storage envelope should never be laid down upon equipment covers, table tops, desk tops or any other surface. They will attract and collect dust particles on the surface that is exposed. These dust particles will cause surface damage when the head goes over them and parity errors may result. Diskettes in storage envelopes should never have anything placed or dropped on them.
- Any diskette that has been exposed to any liquid is unusable. It should never be put in a machine. Equipment damage could occur. Even after the diskette is dried out, the residue from the liquid will be accumulated on the head and cause system/equipment malfunctioning until the head is cleaned or replaced.
- When handling diskettes, the recording surface should never be touched. The oil from your hand will tend to cause surface contamination, making the diskette unusable.
- Never bend or fold a diskette.
- Never expose diskettes to temperatures below 50° F or above 125° F or media damage will result. If you suspect these temperature ranges have been exceeded, a surface verification test must be performed. In any case where the diskette jacket is warped, the diskette must not be used.
- Do not expose to magnetic materials or devices.

Minimizing static discharge problems

Data processing equipment has become very commonplace in today's business office environment. With the data processing equipment getting away from the controlled glass-walled room, growing concern over static discharge has resulted.

Static discharge normally occurs when the operator moves toward a piece of equipment and reaches for some controls on the equipment and discharges the static charge through it. This discharge can create problems for the system as well as discomfort to the operator. Typical effects might be parity errors and/or data errors.

Static electricity is an accumulation of electric charges on either insulating or conducting bodies. The buildup of electric charges occurs due to contact and separation of the bodies.

The magnitude of static electricity generated depends primarily upon the material of the shoes, the type of flooring and humidity conditions.

The average value generated is typically 5,000 volts to 12,000 volts, but it is not uncommon for the value to become as high as 25,000 volts.

An increase in temperature will result in a decrease in relative humidity. Therefore, if there is a decrease in temperature, the relative humidity will increase and the probability of having static discharge problems will also decrease. A relative humidity of about 40%-60% will suffice to eliminate most static problems. Refer to Figure 3 for the relationship between humidity and carpet type and static buildup.

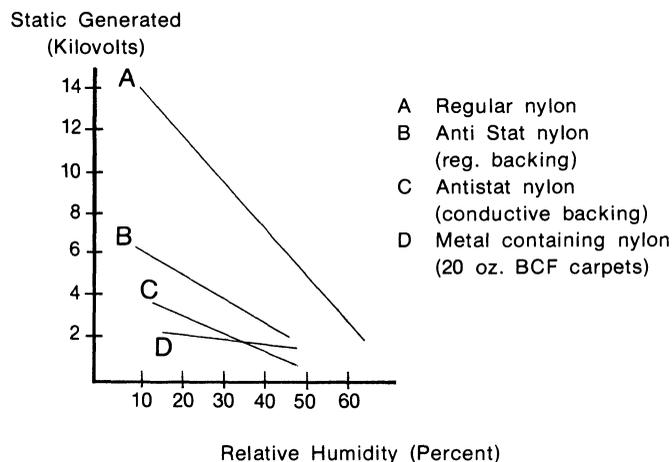


Figure 3. Effects of Humidity on Static Discharge

Static problems, continued

There is no practical way to totally immunize data processing equipment from the effects of static discharge. This is impractical because of the necessary human-machine contact required to operate the equipment.

The most practical solution to this problem is to control the environment at a level where static discharges are minimized and are below the level that affect the equipment, which is approximately 3KV.

Carpeting

Installations having carpeting that is not rated anti-static, can be temporarily conditioned by applying anti-static spray. This anti-static spray is the same product that is available in the local grocery stores to use in clothes dryers -- Cling Free, Static Magic, etc. Several brands are available. Anti-static spray products for computer environments are also available. Care should be used in applying anti-static spray. Equipment should be turned off to reduce the possibility of getting the spray in the equipment via the fan cooling system.

Various companies have performed extensive research on static discharges. The result of these studies indicates that clothing material in garments worn by the people operating the data processing equipment is another very important factor in generating static. Cotton is the only material that does not generate static charges. All synthetic and wool garments aggravate the static problems.

Floor Tile

Generally floor tile is better than carpeting because you do not have the effects of friction between carpeting and footwear to cause additional static.

For the best anti-static results, floor tile should have a maximum resistance of 2×10^{10} ohms between the floor surface and building ground.

Furniture used on floor tile should have metal casters. Avoid rubber or other types of insulating material. Resistance between floor and furniture frames should be less than 10^9 ohms.

The above are excerpts from a paper presented at the IEEE Symposium at San Antonio in October, 1975.

Customer support

Customer Service

The Datapoint Customer Service Organization has an efficient staff using the most modern equipment available to help you with your service needs.

We make one promise -- within two hours of receiving a request for field service via our special "800" numbers, you will have been scheduled for a contact from a qualified customer service specialist. In actual practice, most arrangements are made within one half hour of receipt of the initial message. Each request for service is closely monitored by management until it is satisfactorily taken care of and the user once again has full use of his equipment.



With this system, there is no way for service requests to be overlooked, mishandled, or forgotten -- the customer is guaranteed satisfaction.

The center can be reached from all points in the continental United States on a local call basis via a single number: (800) 531-5770 (in Texas it's (800) 292-5858). Do call if you have a problem -- we operate on the premise that "Good Service is Good Business."

Software Support

Software support should be requested from the Systems Engineer assigned to your account. Your Datapoint Marketing Representative will provide you the telephone number and person to contact for this assistance. Customer Service in San Antonio will provide your Systems Engineer any assistance required when difficult and unusual systems problems are encountered.

Datapoint product line

Datapoint's comprehensive, expanding family of dispersed processors, interactive systems and peripherals:

Processors



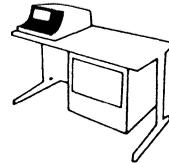
Cassette 1100
Intelligent Terminal
H9 5/8" W18 1/2" D19 5/8"



Datapoint 2200
Business Processor
H9 5/8" W18 1/2" D19 5/8"

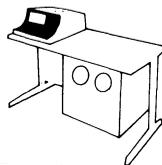


Datapoint 5500
Advanced Business Processor
H9 5/8" W18 1/2" D19 5/8"



Diskette 1100 Intelligent Terminal
H28" W53" D24"

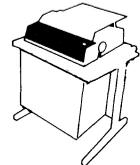
Peripherals



Tape Drives,
7 and 9 Channel,
800 and 1600 BPI
H36 1/2" W52 1/2" D22 3/4"



Cartridge
Disk
H28" W53" D24"



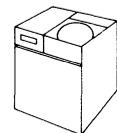
Servo
Printer
H37" W36" D37"



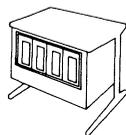
Matrix
Printer
H11 1/2" W27 3/4" D20"



Line
Printer
H45" W32" D22"



Mass
Storage
Disk Unit
H39" W30" D24"



Diskette
H28" W36" D24"



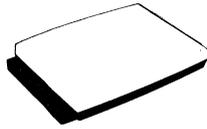
Card
Reader
H11" W19 1/4" D14"



Belt
Printer
H11 1/2" W20 1/2" D23"

Dimensions, continued

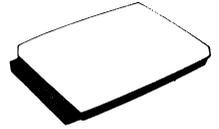
Communications Adaptors



Serial Data
H2 3/4" W10 1/2" D15 1/2"



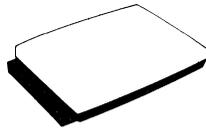
300 Baud Modem
H2 3/4" W10 1/2" D15 1/2"



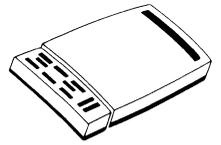
1200 Baud Modem
H2 3/4" W10 1/2" D15 1/2"



High Level Keyer
H2 3/4" W10 1/2" D15 1/2"

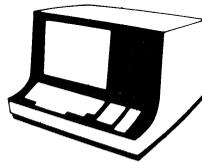


Parallel Interface
H2 3/4" W10 1/2" D15 1/2"

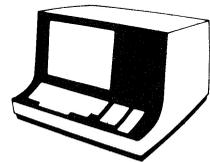


Multi-Port
H2 3/4" W10 1/2" D18"

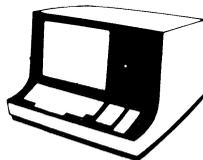
Terminal Equipment



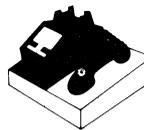
Datapoint 3000
H14" W18" D19"



Datapoint 3300
H14" W18" D19"



Datapoint 3600
H14" W18" D19"



Acoustic Coupler
H4 1/2" W11 3/4" D11 1/4"



Thermal Printer
H5 1/2" W12" D15"

Operating notes

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