

(DISPLAY) DATA SET 305 TYPE  
FOR  
COMPUTER ACCESS FOR "PICTUREPHONE® SERVICE"  
SUMMARIZING SPECIFICATION  
DATA SYSTEMS

**1. GENERAL**

**Scope**

**1.01** This specification, together with the supplementary information listed herein, summarizes the design requirements and information to be used for the application and ordering of Display Data Set 305A. Data Set 305A, contained therein, may be used with either a single-line or key-telephone PICTUREPHONE loop and is intended to provide service for the PICTUREPHONE computer access system.

**Description**

**1.02** The Display Data Set 305A serves to connect the PICTUREPHONE station network to the customer's computer, and allows 1200- or 2400-bps, ASCII transmission either locally or over 4-wire voiceband data links. The following features are furnished:

- (a) Automatic detection of incoming calls, alerting of the computer, and automatic answer if the computer can accept the call.
- (b) Conversion of TOUCH-TONE® signals from the PICTUREPHONE station to ASCII characters for the computer.
- (c) Storage of ASCII characters received from the computer and conversion of this information to PICTUREPHONE character display signal format.
- (d) Detection of call disconnect signals from either the PICTUREPHONE station or from the computer, and automatic return to the idle condition.

(e) Signaling logic to allow an adjunct keyboard to be connected at the calling PICTUREPHONE station and provision for the reception of serial ASCII characters at a nonsynchronous rate of 110, 150, or 300 baud (10 or 11 units per character).

(f) Editing logic to allow the user to modify displays and cause the modified displays to be transmitted to the computer.

**1.03** Data Set 305A type may be mounted inside the KS-20018, L3 cabinet or may be removed from the cabinet and mounted on a 23-inch relay rack. The 305A consists of the Data Set 403D10 and the 32B1 data mounting assembled as one integral unit. The 32B1 contains 16 GT-type circuit packs, one 41E power unit, the connector panels, and mounting and wiring for one Data Set 113B type. Most of the electronic circuitry is contained on circuit packs GT1 through GT16 which, like the Data Set 113B, are provided on a plug-in basis.

**1.04** The functional components of the 305A assembly, when removed from the cabinet, measure 16 inches high by 23 inches wide by 11-1/2 inches deep. The assembly plus the KS-20018, L3 cabinet weighs 85 pounds. The external dimensions of this cabinet measure 24 inches high by 24 inches wide by 12 inches deep.

**1.05** The Data Set 305A is designed to operate from 40 to 120°F, and from 10 to 95 percent humidity. The maximum temperature rise inside the cabinet is approximately 40°F. Natural convection is the method for dissipating the maximum 130 watts generated by the Data Set 305A.

**SECTION 593-014-180**

**2. SUPPLEMENTARY INFORMATION**

- 593-014-100—Description
- 593-014-200—Installation
- 593-014-300—Maintenance
- 593-014-500—Test
- 800-610-159—General Equipment Requirements for Printed Wiring Products
- X-17864—Manufacturing Testing Requirements for Data Set 305A Type
- RS-232-C—EIA Standard

**3. DRAWINGS**

- SD-1D223-01—Data Set 305A Type

**4. PRODUCT**

**Data Set 305A**

- List 1*—Common equipment, assembly, and wiring per SD-1D223-01, App Fig. 1. (See Notes A and B.)
- List 1A*—Identical to list 1, but includes one KS-20018,L3 cabinet. (See Notes A and B.)

**Notes**

- A. One 114A interconnecting unit is required for system operation. Data Sets 202D3 and 113B-L1 are optional and may be ordered as required. See Section 593-014-100.
- B. Cords may be ordered per the following:

CONNECTION TO	FROM CONNECTOR	CORD REQUIRED
114A Interconnection Unit	P101	D50AB-61
Remote Test and Conference Bridge	P201	D50AB-61
Computer Directly	J301	M25A-61
Computer Via Data Sets 202D	P401	M25A-61

**TABLE OF AUTHORIZED ORDERABLE CODE NUMBERS**

DATA SET	RATING	REPLACED BY
305A-L1	AT&TCo Std	—
305A-L1A	AT&TCo Std	—