

8A-TYPE DATA UNIT IDENTIFICATION

1. GENERAL

1.01 This section provides a physical description of the 8A-type Data Unit and describes its basic functions. A list of references is given in Part 4 which provides additional information on the 8A-type Data Unit and associated equipment.

1.02 This section is reissued to show the 8A3 and 8A4 Data Units rated manufacture discontinued (MD), and to show the 8A5 Data Unit as the replacement. The 8A5 Data Unit is electrically equivalent to the 8A3, but the 8A5 has internal wiring that provides frame ground for a ground-start telephone line arrangement. Because many of the 8A3 and 8A4 Data Units are still in use in the field, information on these units is retained.

2. PHYSICAL DESCRIPTION

2.01 The 8A3 and 8A5 Data Units consist of a 26A power unit, a 9-pin power connector, two 50-pin connectors, two capacitors, and two terminal boards mounted on a 3-by 23-inch panel (Fig. 1). The units weigh about 15 pounds each. Dimensions of the 8A3 and 8A5 Data Units are shown in Fig. 1. The 8A4 Data Unit is similar to the 8A3 and 8A5 Data Units, except that the 8A4 contains a 17A power unit and a different power cord (Fig. 2). Electrical characteristics and the data sets with which the data units are used are listed in Table A.

3. FUNCTION

3.01 The 8A-type Data Unit provides dc power to an associated 403E Data Set receiver and

facilitates interface connections between the data set and associated data auxiliary sets.

3.02 The data unit is designed to operate in an environment with an ambient temperature range of +40 to +120°F and a relative humidity range of 20 to 90 percent.

4. REFERENCES

4.01 For additional information on the 8A-type Data Unit and associated equipment, refer to the following:

NUMBER	TITLE
594-026-100	Data Set 403E-Type—Single Receiver Station—Description and Operation
594-026-200	Data Set 403E-Type—Single Receiver Station—Installation and Connections
594-026-300	Data Set 403E-Type—Single Receiver Station—Maintenance
594-026-500	Data Set 403E-Type—Single Receiver Station—Test Procedures
SD- & CD-1D092-01	Data Systems Station—Data Unit 8A-Type

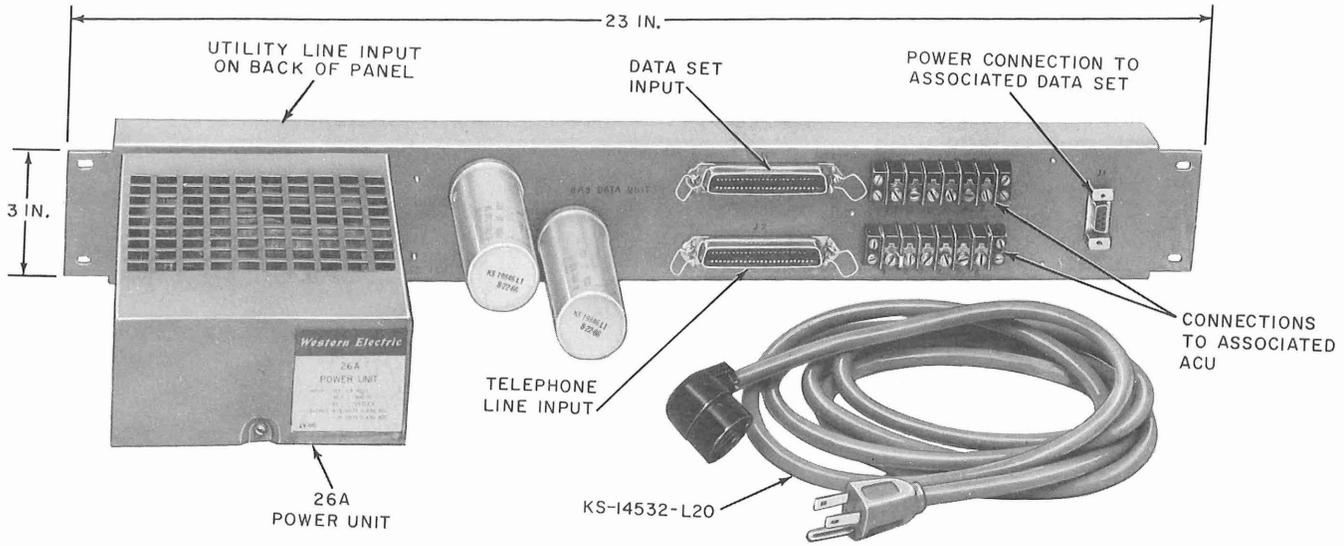


Fig. 1—8A3 or 8A5 Data Unit—Front View

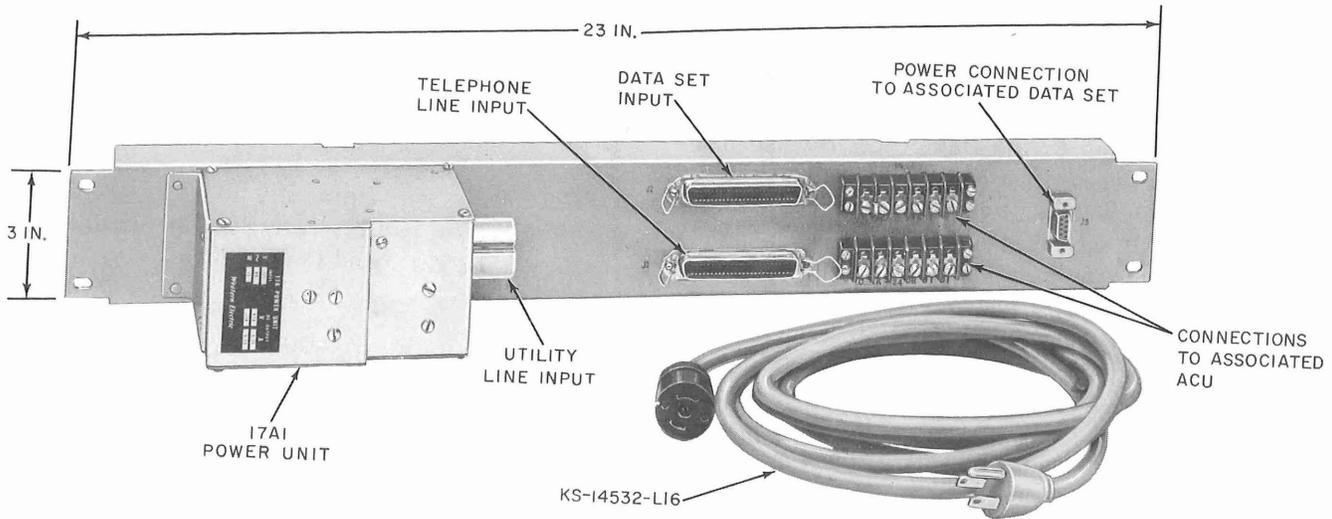


Fig. 2—8A4 Data Unit—Front View

TABLE A
ELECTRICAL CHARACTERISTICS OF, AND DATA SETS USING,
THE 8A-TYPE DATA UNIT

DATA UNIT	POWER UNIT	OUTPUT VOLTAGE (DC)	MAXIMA			USED WITH DATA SET
			CURRENT (mA)	RIPPLE (mV)	LINE POWER (W)	
8A3 (MD)	26A	18+ and -18 ±1	690	100	40	403E4 (MD)
8A4 (MD)	17A	18+ and -18 ±1	250	50	16	403E2 (MD) 403E3 (MD)
8A5	26A	18+ and -18 ±1	690	100	40	403E5 403E6 403E7

Note: The 8A-type Data Unit requires a line voltage of 105-130 Vac at 60 ±1 Hz.