

DATA SET 601-TYPE REFERENCE GUIDE



Data Set 601-Type

1. GENERAL

1.01 Data Set 601-type is a half-duplex, narrowband coupler used only in conjunction with telewriting business machines over the switched network.

1.02 The writing instrument associated with the receiving business machine will follow the movement of the writing instrument associated with the transmitting business machine.

1.03 Data Sets 601A and 601B are rated Manufacture Discontinued (MD) and are replaced by Data Sets 601A1 and 601B1; they have rotary dials.

Data Sets 601A2 and 601B2 are similar but are equipped with TOUCH-TONE® dials.

1.04 Each of these data sets has a telephone set as an integral part of the data set.

1.05 Data Sets 601A, 601A1, and 601A2 have a 597A filter with channels centered on 2200 and 1400 Hz. Data Sets 601B, 601B1, and 601B2 have a 610A filter centered on 1300 and 1050 Hz, with a third channel centered on 800 Hz.

1.06 When testing is required, it is best performed with a Telco employee at the customer's

location working in conjunction with the data test center.

2. PHYSICAL AND ELECTRICAL CHARACTERISTICS

- 2.01 The data sets require 2-1/2 watts of customer-provided 117-volt 60-Hz power.
- 2.02 The data sets measure 4 inches high, 9 inches wide, and 11-3/4 inches deep, and weigh 9-1/2 pounds. They have a 2-tone gray finish.

3. OPERATION

Voice Communication

- 3.01 To use the data set for voice communication, depress the TALK key and proceed in the usual telephone manner. If a spare line is provided, depressing the SPARE key provides for voice communication at any time, even when the data set is in the data mode.

Data Transmission

- 3.02 Depress the TALK key and dial the receiving station. If the receiving station is attended, verbal agreement must be reached to begin data transmission.

Note: For the receiving station to answer automatically and switch the call to data mode, the receiving station AUTO key must be depressed.

- 3.03 If the receiving station is unattended, a 4-second answer-back tone will be returned, indicating that the receiving station is ready to receive data.
- 3.04 With the transmitting business machine in the ready condition, depress the WRITE key. The WRITE lamp will light; the handset may now be placed on the cradle.
- 3.05 An end-of-message signal is sent by the attendant at the transmitting business machine at the completion of data transmission. This causes both transmitting and receiving data sets to release the line.

Data Reception

- 3.06 The data set may be arranged for either attended or unattended operation as follows.

Attended Operation

- 3.07 Depress the TALK key to answer the originating station and reach an agreement on beginning data transmission.
- 3.08 When the business machine is in the ready condition, the receiving attendant depresses the WRITE key. The WRITE lamp will light; the handset may then be placed on the cradle.

- 3.09 At the end of data transmission, the end-of-message signal from the transmitting business machine causes the receiving data set to release the line and to extinguish the WRITE lamp. The receiving line may also be released by lifting the handset, depressing the TALK key, then replacing handset on the cradle.

Unattended Operation

- 3.10 With the receiving business machine in the ready condition, depress the data set AUTO key. The AUTO lamp will light. When an incoming call is received, the data set automatically trips the ring and places a holding bridge across the line.
- 3.11 A 4-second answer-back tone is returned to the originating station to indicate that the business machine is ready to receive data, and the receiver WRITE lamp will light.

- 3.12 At the end of data transmission, the end-of-message signal causes the receiving data set to release the line and extinguish the WRITE lamp. The data set is then ready for the next incoming call. The line may also be released as described in 3.09.

4. SERVICE ORDER INFORMATION

- 4.01 Refer to Section 590-000-101 entitled Reference Guide—Description of Data Set Features and Options for a more detailed explanation of features and options common to most data sets. Service offerings are outlined in Table A.

TABLE A
SERVICE OFFERINGS — CURRENT STANDARD MODELS

MODEL	FEATURE	USOC
601A1	Rotary Dial Electrowriter	DBHOO
601A2	TOUCH-TONE Dial Electrowriter	DBSOO
601B1	Rotary Dial Phonewriter	DGAOO
601B2	TOUCH-TONE Dial Phonewriter	DGCOO

4.02 There are no customer or Telco options on these data sets.

5. SUBSTITUTE DATA SETS

5.01 Data sets listed in Table B may be substituted to supply services previously described in this section.

TABLE B
SUBSTITUTE DATA SETS

USOC	SUBSTITUTE
DBHOO	601A (MD), previously coded J1D601A, List 1.
DGAOO	601B (MD), previously coded J1D601B, List 1.

6. REFERENCES

6.01 The following references provide additional information on Data Sets 601-type and associated equipment.

(a) BSPs 596-010-100, -200, -300, -500

(b) PEL 6870

(c) Data Set 601-Type Interface Specification

(d) BSRS 480.005