

DATA AUXILIARY SET 828C
DATA SERVICE UNIT FOR 4-WIRE VOICEBAND DATA TRANSMISSION
SUMMARIZING SPECIFICATION
DATA SYSTEMS

1. GENERAL

Scope

1.01 This specification, together with the supplementary information listed herein, summarizes for ordering purposes, the product design requirements for the framework, assembly, and circuits covering Data Auxiliary Set 828C.

Features

1.02 Data Auxiliary Set 828C (data service unit) terminates two direct distance dialing (DDD) lines and utilizes them to provide one 4-wire (4W) voiceband data circuit. It is composed of three data units and two 200-type key telephone units which accomplish the various switching, control, and signaling functions associated with the transfer of the four wires to the DDD network. Data Auxiliary Set 828C was designed primarily as a backup for one 4-wire private line (4WPL) voiceband data circuit. It is designed specifically to work with Data Auxiliary Set 828A in this capacity. However, it may also be used in conjunction with two DDD lines to handle 4W voiceband data not associated with a private line circuit.

Power Requirements

1.03 A source of -24 volt dc signal battery and a 20 or 30 Hz, 105 Vac ringing supply are required to power the Data Auxiliary Set 828C. However, no power supplies have been furnished with these sets. They must be ordered separately.

1.04 The maximum current drain per set is 275 mA of -24 Vdc signal battery.

Description

1.05 Data Auxiliary Set 828C-L1 consists of two discrete packages which plug together and

are suitable for mounting on relay racks, a 16C or 31B apparatus mounting or various other equipment cabinets. One package consists of two 39A1 data units and a connecting block assembly mounted on hanger bars to form a single integral unit. The second package consists of a 227B key telephone unit (KTU), 229B KTU, 36A1 data unit and a connecting block assembly which is also mounted on hanger bars as a single integral unit. Both packages have been prewired and tested by the factory. Three 66-type connecting blocks have been provided for testing, strapping options, and terminating lines (DDD, power, etc). Connections to ancillary apparatus (1000A data coupler, 941-type compromise equalizer, etc) are on an as required basis.

1.06 Data Auxiliary Set 828C-L1A consists of the list 1 packages mounted in an enclosure made up from a 31B apparatus mounting, 177A backboard, 116A cover, and associated hardware (screws, cable rings, etc). It has been prewired and tested by the factory.

1.07 Connections to Data Auxiliary Set 828A and Bell System modems can be made on either a plug-in or quick connect basis. However, the plug-in method is recommended for most installations (see 1.11 for the correct cords).

1.08 The Data Auxiliary Set 828C is not a complete unit. The telephone company must select and provide a suitable plug-in pad (89-type resistor) for the transmitting pair (DDD line 1) to ensure that the correct signal level will be received at the central office.

1.09 Whenever it is used with two DDD lines or as a backup for a 4WPL terminated in Data Auxiliary Set 828A-L1 or 828A-L1A, a telephone set [565HK-() or equivalent] must be ordered and installed with the Data Auxiliary Set 828C.

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1.10 Compromise equalizers may be ordered and installed with the Data Auxiliary Set 828C on an as required basis. For data set 201 type installations, use a 941A equalizer and a 259B KTU. For data set 202 type installations, use a 941B equalizer and a 259B KTU (see SD-1D233-01, Notes).

1.11 A M6AK-61, D50AA-3 or M8J-61 cord may be ordered to interconnect this set with Bell System data sets 201, 202, or 203, respectively.

1.12 Data Auxiliary Set 828C-L1 consists of two discrete packages. The small package measures 6-15/16 inches high by 5-7/32 inches wide by 8-7/32 inches deep and weighs approximately 8-1/2 pounds. The large package measures 6-15/16 inches high by 9-1/8 inches wide by 7-23/32 inches deep and weighs approximately 8-1/4 pounds. Data Auxiliary Set 828C-L1A, with the cover in place, measures 16-5/8 inches high by 13-9/32 inches wide by 10-1/16 inches deep and the complete assembly weighs approximately 23 pounds.

2. SUPPLEMENTARY INFORMATION

463-140-100—Equipment Cabinets and Apparatus Mountings—Identification
502-541-415—565HK-() Telephone Set
502-541-425—568 HAA Telephone Set (Key)
590-010-200—Data Sets—General Installation and Connection Information
590-100-127—36A1 Data Unit—Identification
590-100-130—39A1 Data Unit—Identification
598-080-100—Data Auxiliary Set 828A, Data Service Unit—Description and Operation
598-080-101—Data Auxiliary Set 828C, Data Service Unit—Description and Operation
598-080-180—Data Auxiliary Set 828A, Data Service Unit for 4-Wire Private Line—Summarizing Specification
598-080-200—Data Auxiliary Set 828A, Data Service Unit—Installation and Connections
598-080-201—Data Auxiliary Set 828C, Data Service Unit—Installation and Connections
598-080-500—Data Auxiliary Set 828A, Data Service Unit Maintenance and Test Procedures
598-080-501—Data Auxiliary Set 828C, Data Service Unit—Maintenance and Test Procedures
743-001-002—Uniformity of Nomenclature for Listing, Ordering and Billing Materials
800-610-158—Packaged Electronic Products

3. DRAWINGS

SD-1D233-01—Data Auxiliary Set 828C
SD-1D228-01—36A1 Data Unit
SD-1D231-01—39A1 Data Unit

4. PRODUCT

Data Auxiliary Set 828C

List 1—Provides switching, control, and signaling facilities for one 4W voiceband circuit. It consists of two discrete packages assembled on hanger bars and wired per SD-1D233-01. The two packages plug together and are suitable for mounting on relay racks or on a 16C or 31B apparatus mounting.

List 1A—Provides switching, control, and signaling facilities for one 4W voiceband circuit. It consists of the two list 1 packages mounted on a 31B apparatus mounting and wired per SD-1D233-01. The mounting is hinged to a 177A backboard for access to the rear of the units. A light olive gray dust cover (116A) completes the package.

TABLE OF AUTHORIZED ORDERABLE CODE NUMBERS

| DATA AUXILIARY SET | RATING |
|--------------------|------------|
| 828C-L1 | AT&TCo Std |
| 828C-L1A | AT&TCo Std |

Note: Ordering information for the above products should be listed in this form:

Set, Auxiliary, Data, 828C-L1