

DATA SET 407CR

IDENTIFICATION

1. GENERAL

1.01 This section provides a brief physical and functional description of data set (DS) 407CR. The "R" in the data set code is used to designate that the data set is registered with the FCC. Pre-registration data sets do not have "R" in the data set code.

1.02 When this section is reissued, the reason for reissue will be presented in this paragraph.

1.03 DS 407CR is a low-speed data transmitter-receiver which accepts parallel 2-out-of-8 signals produced by a TOUCH-TONE® or transaction telephone at up to 10 characters per second. The transmitter responds with frequency shift keyed (FSK) signals. The primary purpose of DS 407CR is in TOUCH-TONE inquiry/FSK answer-back systems used for credit and check approval by merchants inputting into a credit bureau or bank's centralized computer.

1.04 DS 407CR is a dual data set. Each data set serves two telephone (data) lines and two computer ports.

1.05 DS 407CR performs all the functions of DS 407A and 407B, and also provides the following additional features:

- Serial interface
- FSK or keyed answer tone responses
- Several end-of-message indicators
- Data flow control protocol
- Error control
- Logon/sign-on procedure
- Power monitor

- Buffering of incoming TOUCH-TONE messages
- Automatic punctuation of outgoing ASCII messages
- OS switch.

2. PHYSICAL DESCRIPTION

2.01 DS 407CR consists of two circuit packs (CP1 and CP2) mounted together (Fig. 1). Two KS-19087-type 25-pin connectors are located on the front of the data set, which provide the interface with customer-provided terminal equipment. Printed wiring board terminals are located on the rear of the data set, which enables the data set to plug into a 57-type data mounting and connect to the data lines and power source.

2.02 DS 407CR is housed in a 57-type data mounting, which in turn is housed in a KS-20018-L20 cabinet.

2.03 Up to four data sets can be mounted in a 57-type data mounting. Two data mountings (up to eight data sets) may be housed in one KS-20018-L20 cabinet, which is provided with forced air ventilation and thermal protection. When more than eight data sets are required, additional cabinets must be used. **Only the KS-20018-L20 cabinet is recommended for DS 407CR, because of thermal limitations.**

2.04 The data set measures 25 cm (10 in.) high, 34 cm (13.2 in.) deep, and 9 cm (3.7 in.) wide, and weighs about 2.5 kg (5.5 lb.).

2.05 DS 407CR requires +12 volts, -12 volts, +5 volts, and -5 volts for operation. A 229A power unit supplies four independent sets of these voltages. Thus, one power unit provides power for all data sets in a 57-type data mounting. The 229A power unit is energized by customer-provided 117-Vac 60-Hz power.

NOTICE

Not for use or disclosure outside the
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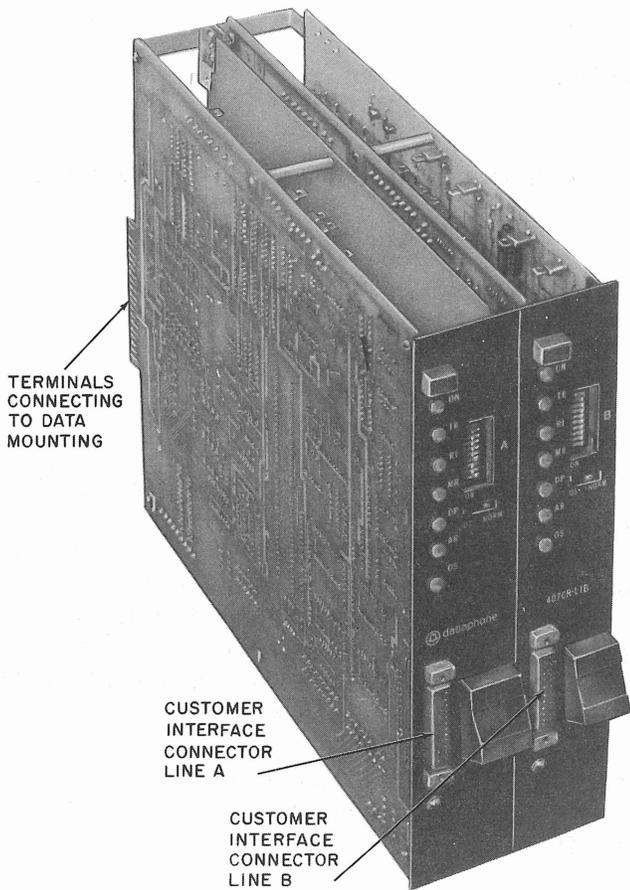


Fig. 1—Data Set 407CR—Overall View

2.06 DS 407CR will operate in an ambient temperature range of 4° to 49° Celsius (40 to 120°F), with a relative humidity of less than 95 percent.

3. FUNCTIONAL DESCRIPTION

3.01 Unlike the DS 403 family and DS 407A and B, DS 407CR is a dual, or twin data set intended only for multiple installations. Each data set serves two incoming lines and two computer ports simultaneously.

3.02 DS 407CR may be optioned for either parallel or serial operation. In the parallel mode, it may be optioned for either contact closure equivalent or Electronic Industries Association (EIA) voltage interface. In the serial mode, DS 407CR

always presents a voltage interface in accordance with EIA Standard RS-232-C.

3.03 There are 22 telephone company (telco) options and 40 customer options on the data set. The telco options are implemented by Cambion shorting plugs, backplane wiring, and a strap on the 229A power unit. Customer options are implemented by means of two groups of ten switches on the front of the data set. All of the options are described in detail in Section 594-801-202.

3.04 Seven status light emitting diodes (LEDs) are provided on the front panel of each data set section to monitor certain functions and the state of interface leads.

3.05 An OS switch is provided on the front panel of each data set section to take the lines out of service.

4. REFERENCES

4.01 The following documents contain additional information on DS 407CR and related equipment.

| NUMBER | TITLE |
|----------------|--|
| SD&CD 1D279-02 | Data Systems Station—407C Data Station |
| SECTION | TITLE |
| 590-100-133 | 47A1 Data Unit—Identification |
| 590-100-137 | 51A1 Data Unit—Description |
| 590-102-143 | 57-Type Data Mountings—Description |
| 594-800-501 | 407-Type Multiple Data Station Using 2B Automatic Call Distributor—Test Procedures |
| 594-801-102 | 407CR Multiple Data Station—Description |
| 594-801-182 | 407CR Multiple Data Station—Summarizing Specification |

| SECTION | TITLE | SECTION | TITLE |
|-------------|--|-------------|--|
| 594-801-202 | 407CR Multiple Data Station— Installation and Connections | 594-801-502 | 407CR Multiple Data Station—Test Procedures |
| 594-801-302 | 407CR Multiple Data Station— Maintenance | | |