

**DATA AUXILIARY SET 820G TYPE**  
**SUMMARIZING SPECIFICATION**  
**DATA SYSTEMS**  
**STATION**

**1. GENERAL**

**Scope**

**1.01** This specification, together with supplementary information listed herein, summarizes for application and ordering purposes the product design requirements for the assembly and circuit covering Data Auxiliary Sets 820G type.

**Description**

**1.02** Data Auxiliary Sets (DAS) 820G type are used as station controllers for the private line 85A1 and A2 data selective calling service outlying stations. DAS 820G type operate in the half-duplex mode. They operate with M33, M35, or M37 type teletypewriters at speeds of 100 and 150 bauds.

**1.03** The physical dimensions of DAS 820G type are approximately 15.5 inches wide, 9 inches deep, and 6 inches high.

**1.04** The basic DAS 820G-L1 (nonorderable code) contains nine AR type circuit packs and associated apparatus as follows:

- AR188 Circuit Pack
- AR190 Circuit Pack
- AR192 Circuit Pack
- AR193 Circuit Pack
- AR485 Circuit Pack
- AR486 Circuit Pack
- AR487 Circuit Pack
- AR498 Circuit Pack
- AR530 Circuit Pack
- 24A Power Unit
- 748A Tool

**1.05** Data Auxiliary Set 820G-L1/2 consists of the basic DAS 820G-L1 with the addition of AR274 circuit pack for use with M37 ASR or RO

type teletypewriters. DAS 820G-L1/2 is mounted in the lower right cabinet of the M37 type teletypewriter via a 93A bracket. DAS 820G-L1/2 is used in conjunction with DAS 804R5 (attendant set). Power cord KS-14532, L16 is provided with DAS 820G-L1/2.

**1.06** Data Auxiliary Set 820G-L1/3 consists of the basic DAS 820G-L1 with the addition of AR269 circuit pack for use with M37 ROTR type teletypewriters. DAS 820G-L1/3 is mounted in a KS-20018 type cabinet via a 95A bracket. DAS 820G-L1/3 is used in conjunction with DAS 804R7 (attendant set). The interconnections between DAS 820G-L1/3 and DAS 804R7 are made via a 212A adapter and M36E cord. The 212A adapter mounts on the inside surface of the M37 ROTR teletypewriter door. The M36E cord (available in lengths of 4, 10, and 50 feet) plugs into the 212A adapter on one end and into DAS 820G-L1/3 on the other end. The M37 ROTR teletypewriter connects directly into the DAS 820G-L1/3. Power cord KS-14532, L16 is provided with DAS 820G-L1/3.

**1.07** Data Auxiliary Set 820G-L1/4\* consists of the basic DAS 820G-L1 with the addition of AR273 circuit pack for use with M33 and M35 and ASR and RO type teletypewriters. DAS 820G-L1/4 is mounted in the lower rear cabinet of the M33 ASR and RO type teletypewriters via a 91A bracket and in the lower front cabinet of M35 ASR and RO type teletypewriters via a 92A bracket. DAS 820G-L1/4 is used in conjunction with DAS 804N5 (attendant set). DAS 804N5 and the M33 and M35 type teletypewriters connect directly into DAS 820G-L1/4. Power cord M3AY is provided with DAS 820G-L1/4.

\* DAS 820G-L1/4 is similar to DAS 820G1 which shall be rated A&M Only except that DAS 820G1 can operate in the echoplex mode when equipped with Data Set 108A and the CAN polling response.

**SECTION 598-064-180**

**1.08** Data Auxiliary Set 820G-L1/5 consists of the basic DAS 820G-L1 with the addition of AR268 circuit pack for use with M35 ROTR type teletypewriters. DAS 820G-L1/5 is used in conjunction with DAS 804R7. The physical mounting and interconnection arrangements for DAS 820G-L1/5 are similar to those for DAS 820G-L1/3 described in 1.06. Power cord M3AY is provided with DAS 820G-L1/5.

**1.09** Space is provided in all DAS 820G-L1 type for data set 108A1 or 109A1.

**2. SUPPLEMENTARY INFORMATION**

- A-157669—Assembly Drawing DAS 820G Type
- A-157100—Common Features Drawing for Printed Wiring Boards
- A-157570—Wiring Diagram
- A-836330—Terminal Area Configuration for Printed Wiring Boards
- 581-130-100—85 A 1 Data Selective Calling Service—System Description
- 581-130-300—85 A 1 Data Selective Calling Service—System Maintenance
- 581-131-100—85 A 1 Data Selective Calling System—Outlying Station—Description
- 581-131-200—85 A 1 Data Selective Calling System—Outlying Station—Installation
- 581-131-300—85 A 1 Data Selective Calling System—Outlying Station—Maintenance
- 581-131-500—85 A 1 Data Selective Calling System—Outlying Station—Test Procedures
- 581-131-101—85 A 2 Data Selective Calling System—Outlying Station—Description
- 581-131-201—85 A 2 Data Selective Calling System—Outlying Station—Installation
- 581-131-301—85 A 2 Data Selective Calling System—Outlying Station—Maintenance
- 581-131-501—85 A 2 Data Selective Calling System—Outlying Station—Test Procedures
- 598-064-100—Data Auxiliary Set 820G—Identification
- 598-067-101—Data Auxiliary Set 804R5 and R7—Identification
- 800-610-158—Packaged Electronic Products—Wiring, Cabling, Numbering, and Lettering
- 800-610-159—Printed Wiring Assemblies—General Equipment Requirements

X-17428—Plated-Through Holes for Printed Wiring Boards

X-17454—Manufacturing Testing Requirements

CD-3D041-01—Data System Station—Data Auxiliary Set 820G Type for 85A1 and A2 Data Selective Calling System—Circuit Description

**3. DRAWINGS**

SD-3D041-01—Data Systems Station—Data Auxiliary Set 820G Type for 85A1 and A2 Data Selective Call System—Schematic

**4. PRODUCT**

***Data Auxiliary Set 820G-Type***

**List 1/2**—Adds to basic set (L1, nonorderable) AR274 circuit pack for 150-baud operation with M37 ASR and RO type teletypewriters.

**List 1/3**—Adds to basic set (L1) AR269 circuit pack for 150-baud operation with M37 ROTR type teletypewriters.

**List 1/4**—Adds to basic set (L1) AR273 circuit pack for 100-baud operation with M33 and M35 and ASR and RO type teletypewriters.

**List 1/5**—Adds to basic set (L1) AR268 circuit pack for 100-baud operation with M35 ROTR type teletypewriters.

**TABLE OF AUTHORIZED ORDERABLE CODE NUMBERS**

| APPARATUS                    | RATING     |
|------------------------------|------------|
| Data Auxiliary Set 820G-L1/2 | AT&TCo Std |
| Data Auxiliary Set 820G-L1/3 | AT&TCo Std |
| Data Auxiliary Set 820G-L1/4 | AT&TCo Std |
| Data Auxiliary Set 820G-L1/5 | AT&TCo Std |

**5. GENERAL NOTES**

**5.01** When ordering apparatus, show full code.

Example: Data Auxiliary Set 820G-L1/2

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