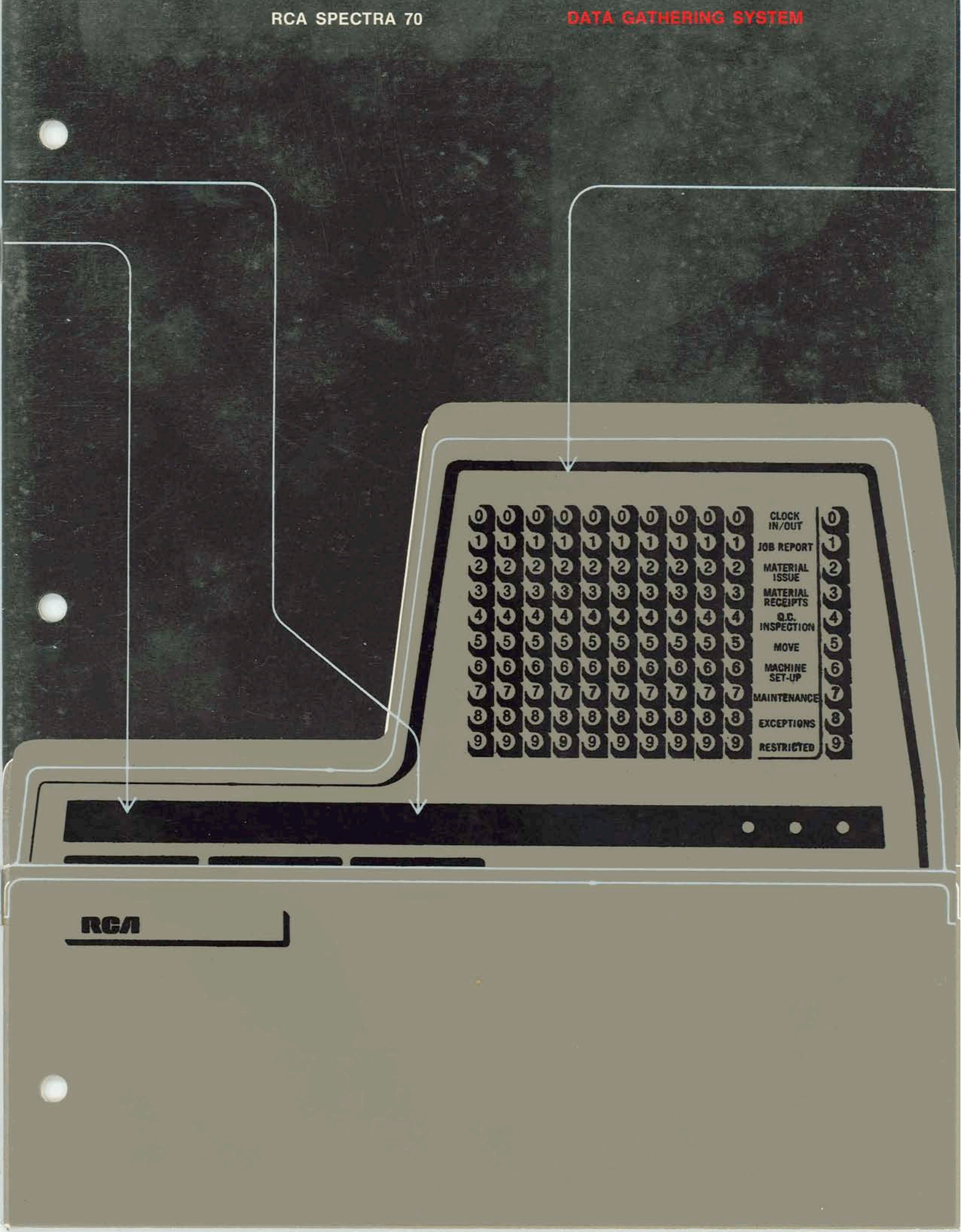
RCA SPECTRA 70

DATA GATHERING SYSTEM



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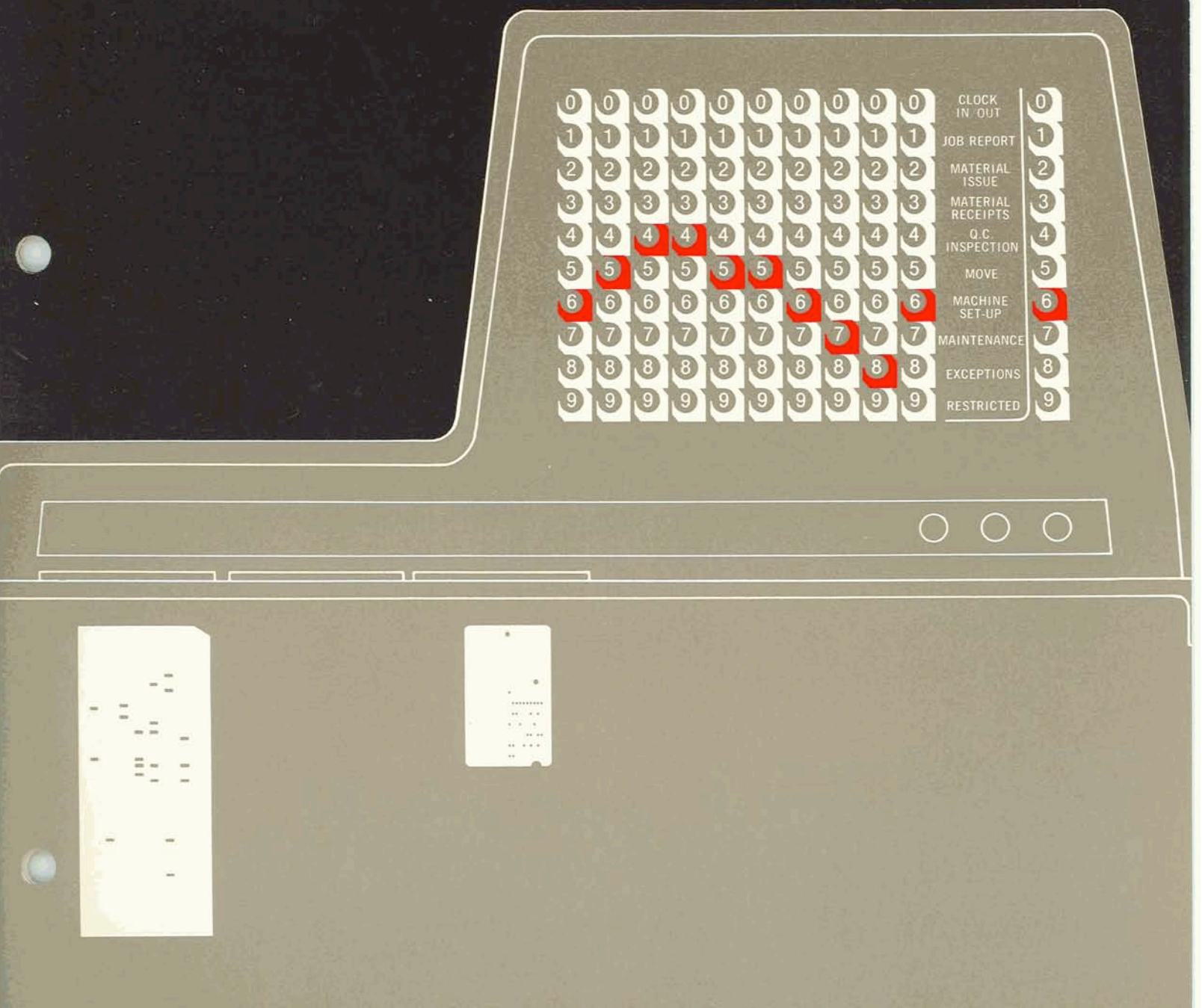



RCA

1/70

RCA's new Data Gathering System preserves the vitality of business information by bringing crucial facts to management's attention, speedily and accurately. It collects fresh data from locations where it originates and transmits it electronically directly to a Spectra 70 computer or a stand-alone controller for temporary magnetic storage. A system may be comprised of many or few DGS units . . . within a plant or a continent away. Whatever the set-up, an RCA Data Gathering System provides a timely and reliable picture of business activity as it occurs.

RCA SPECTRA 70 DATA GATHERING SYSTEM


10
9
8
7
OK

DGS/ON THE JOB

DGS is a pipeline for information...at electronic speeds. Each DGS message has the informational content management requires for operational control and for reports that yield decision-making facts. Every transaction tells from whom it was sent, where it originated, and the time it occurred. Messages may be fixed, pre-coded, variable, optional (such as weights or machine count), or combinations of all.

Typical operation controls where DGS can be applied to great advantage:

Production costs and work measurement. A by-product of reporting the start and finish of each job...DGS supplies the computer, time and quantities for actual costs generated on each job. Labor distribution, efficiency, machine utilization data are all available for analysis.

Job lot production status. As individual jobs proceed through successive production steps, they can be reported automatically. Data obtained monitors each job's progress, warns of potential bottlenecks, permits timely management action.

Attendance reporting. DGS input stations and Badge Readers can take the place of time clocks.

Quality control. Inspection results are immediately flashed to the computer for instant analysis—alerts management to adverse trends so it can respond instantly.

Stockroom, warehouse, tool crib. Item, quantity, and charge information transmitted as soon as receipts or disbursements are made. Stock status is truly current.

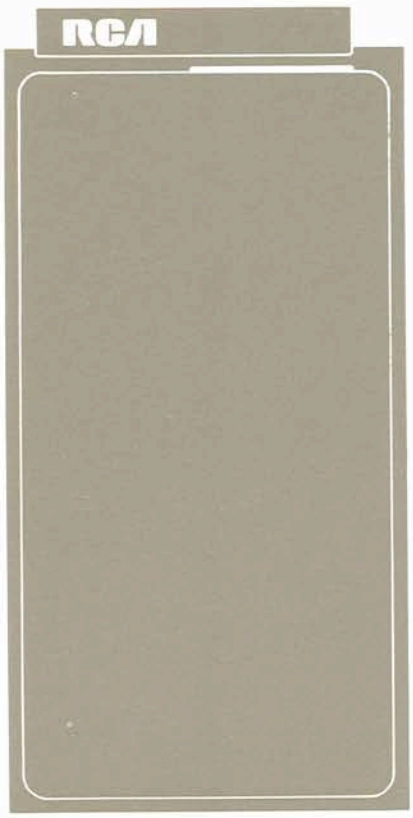
And hundreds of other areas where DGS provides constant control...
Libraries...for circulation control
Hospitals...admissions, patient charges, drug control
Security systems...access control, document control

DGS/A MODULAR SYSTEM

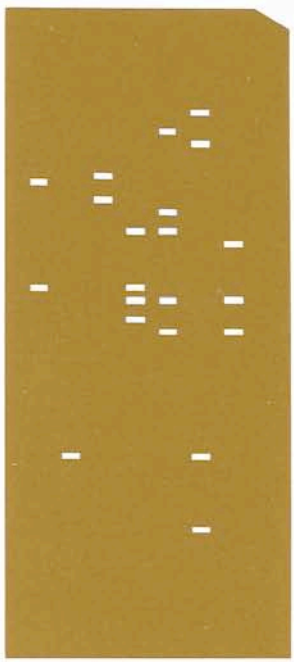
DGS consists of input station (for fixed, variable or optional data), line concentrators, signal converters, off-line controller, and communication regulators.

Modularity extends throughout the system—including the input stations.

For instance, your requirements may call for input stations containing two Badge Readers and one Card Reader. Or vice versa. Or maybe two, one, and Variable Entry. You may specify a wall-mounted attendance unit. The choice is yours.



EMPLOYEE BADGE READER (automatic)... inserting badge identifies sender, department number, section, security classification—information relating to the employee.



PUNCHED CARD READER (automatic)... accepts up to 80 alphanumeric characters of data about the job—such as job description, account number, lot number, vendor, estimated completion time and customer order number.

VARIABLE ENTRY (manual)... adds additional numeric input from decks of keys for Job Start (number of pieces received, machine number, shift code), and Job Report (parts completed, scrapped, scheduled for re-working) —other details.

DGS is designed for easy changes—on your premises. That way you're never locked out when changes fall due. You can have what you need when you need it.

Not only are input stations modular, but DGS's independent two-wire concept permits you to add or remove stations easily and without disturbing the rest of the system.

DGS/EASY AND ACCURATE

Electronically and functionally, DGS represents a high point in RCA's long experience with data gathering equipment.

Variable Entry controls are on a tilted panel within easy reach. An oversize keyboard with one-inch square buttons enhances operator speed and accuracy. When the buttons are depressed, they illuminate for a rapid check of variable data. Other checks safeguard data transmission. It's impossible to transmit until all transaction criteria are met. As any of ten kinds of transmission are keyed, panel lights flash on to indicate type of input data required.

Input documents are dropped into slots and automatically locked during reading. The operator can remove them only after message is transmitted and the computer signals accurate reception. DGS readers function in hostile factory environments as well as in any office environment.

DGS/EMPHASIS ON COMMUNICATIONS

DGS, directly connected to a Spectra 70 computer or to a controller, does its many crucial jobs economically without intervening devices. All you need is two-wire voice-grade lines. When tied into a telephone network for remote transmission, a low-cost signal converter and telephone data sets are added to the system.

DGS's interconnecting two-wire circuits emphasize reliability. Each station independently connects with a Line Concentrator which simplifies installation and makes for efficient handling of communications by the processor. Should a circuit fail, only one station goes off. The Line Concentrator has two output trunks. Either can handle all the traffic automatically should the other malfunction.

Trunks terminate at the Communications Controller-Multichannel (CCM) and a Spectra 70 computer for on-line data collection. Or, they may terminate in a Spectra 70/674 Controller for off-line operations or computer back-up.

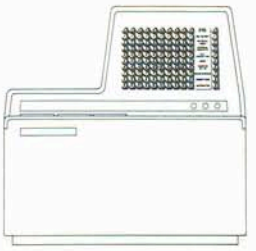
From one to 384 input stations may be linked to the CCM, 256 to the controller—proof of broad communications flexibility for any DGS user.

DGS/SPECIFICATIONS

Data Transmitter (two models)

Model 70/6311—Wall-mountable.
Maximum of 28 alphanumeric characters. Accepts input from a Badge Reader or auxiliary Digital Readout unit.

Model 70/6312—Table-top unit.
Maximum of 189 alphanumeric characters. Accepts input from Card and Badge Readers in combination up to three, plus ten or twenty digits of Variable Entry. Has a deck of 10 transaction code keys which determine type of data to be transmitted. Interlocks assure entry of required data before transmission. Controls prevent improper insertion of documents.



Badge Reader Model 70/6321
Accepts a credit-card size badge with an even parity checkable code containing up to 18 alphanumeric characters.

Card Reader Model 70/6331
Accommodates a full-size EAM card with 80 alphanumeric characters.

Variable Data Reader Model 70/6341
Reads 10 variable numeric characters—from 0 to 9,999,999,999.

Digital Readout Adapter—Feature 5609
Reads and transmits data from a machine counter or weight scale.

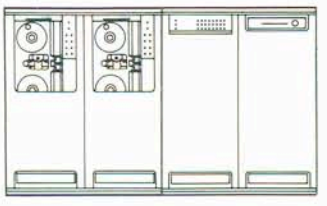
Line Concentrator (two models)

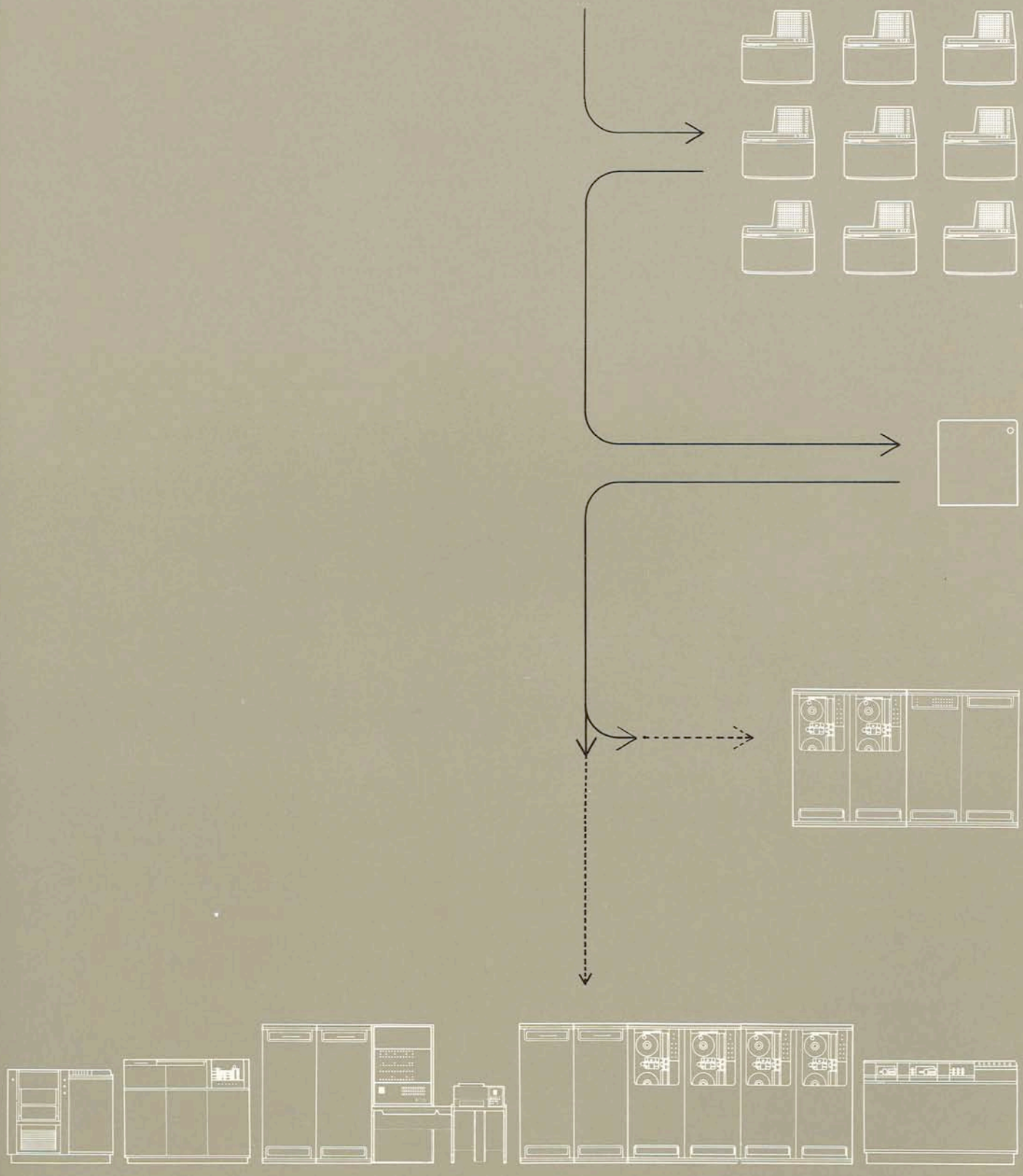
Model 70/6381
Services requests from as many as 16 input stations and connects them to one of two output trunks.

Model 70/6382
Services requests from as many as 32 input stations.

Signal Converter Model 70/6385
Rearranges data for acceptance by telephone network for long distance communications.

DGS Controller Model 70/674
A pre-programmed device which accepts DGS messages, performs edit checks on input data, adds time of transaction and controls output to a 70/432 Dual Magnetic Tape Unit. Can be used to back up the Spectra 70 Computer in an on-line system when the computer is temporarily not available—or—
Can be used as a stand-alone DGS System. Capable of serving up to 256 input stations.





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