

modern telephone communications

for **MODERN BUSINESS**



With **KELLOGG** *KMG Series Telephone Equipment*



A DIVISION OF

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MODERN BUSINESS DEMANDS SPEED, EFFICIENCY, AND ECONOMY

Kellogg KMG Automatic Dial Telephone Systems offer dependable, high quality, low-cost internal telephone communication that provides the *speed, efficiency, and economy* required by modern offices, factories, schools, institutions, etc.

..... ● Instant, automatic internal telephone communication between people within your organization permits rapid exchange or transfer of information.

..... ● Expensive rented P.B.X. or P.A.B.X. facilities are relieved of internal traffic that hampers prompt, speedy handling of outside calls.

..... ● Extension telephones rented from the telephone company are eliminated except for those people in your organization who require outside service.

..... ● The most modern *K-500* telephone instruments are used with *Kellogg KMG Dial Telephone Systems*—the same dependable, high quality telephone instruments used in commercial telephone company installations. They are available in a choice of nine colors to complement modern office decor.

..... ● *Kellogg KMG Automatic Dial Telephone Systems* provide private internal communication facilities 24 hours a day with full standard features, such as dial tone, interrupted ringing, ring-back tone, and busy tone. Built-in distribution frames and pre-wired racks permit any competent electrician to modify existing facilities or add additional extension lines and conversation links.

..... ● *Kellogg KMG Automatic Dial Telephone Systems* are inexpensive, yet quality is not sacrificed for price. They will pay for themselves in just a few years with the money saved on P.B.X. or P.A.B.X. equipment rented for internal telephone facilities.

..... ● *Kellogg KMG Automatic Dial Telephone Systems* are products of the world-wide IT&T System, which certifies excellence of

technical design and quality of manufacture.

Many special facilities are provided as standard equipment on *Kellogg KMG Automatic Dial Telephone Systems*:

(A) **Executive Right-of-Way:** This feature permits certain executives or other pre-assigned extensions to interrupt a conversation, if desired, when the called station is found to be engaged.

(B) **Alternate No-Answer Rotation (Group Hunting):** Calls to extensions so equipped are automatically transferred to an alternate extension if the party does not answer. Every *Kellogg KMG System* is equipped with one Alternate No-Answer Rotation Circuit as standard equipment. Additional circuits available as optional equipment.

(C) **Alternate 'Busy' Rotation (Collective Numbers):** Calls to extensions so equipped are automatically transferred to an alternate extension if the called extension is engaged; if the first alternate extension is also engaged, the call is automatically transferred to a second alternate extension. If all extensions in the 'Busy' Rotation Circuit are engaged, the caller receives a busy signal. Every *Kellogg KMG System* is equipped with two three-alternate 'Busy' Rotation circuits as standard equipment. Additional circuits or additional alternates-per-circuit are available as optional equipment.

Other optional facilities include Code Call, Voice Paging, Conference Circuit, Tie-Line Adapter, and Long Distance Repeater.

► **CONVENIENT AUTOMATIC OPERATION** A call is made by removing the telephone handset and when the dial-tone is heard, one or more digits are dialled (depending upon the size of the system); the connection to the called extension is made quickly, automatically.

► **COMPLETE PRIVACY** Every conversation is completely confidential, except, of course, for a Conference Circuit (when provided) or when an executive employs his Executive Right-of-Way facility.

► **SIMPLICITY OF INSTALLATION, MODIFICATION, AND EXPANSION** Only two wires are connected to each normal telephone instrument. The wiring of additional extension lines and conversation links can be easily done by any competent electrician.

► **DEPENDABLE, TROUBLE-FREE PERFORMANCE** *Kellogg KMG Dial Telephone Systems* are carefully designed and built for dependable service year after year. All switching components are selected for their long-life performance.

KELLOGG KMG AUTOMATIC DIAL TELEPHONE SYSTEMS MAY BE PURCHASED FULLY EQUIPPED OR PARTIALLY EQUIPPED, AND EXPANDED AS ADDITIONAL TELEPHONE FACILITIES ARE REQUIRED.

INSTALLATION The KMG 25 may be readily secured to any wall, in any convenient location.

The KMG 50 and KMG 100 may be floor-mounted in any convenient closet or room.

OPERATING RANGE The loop resistance between the equipment and each telephone can be as high as 500 ohms (2×250 ohms) which is approximately equivalent to 10,000 feet of No. 22 AWG two-conductor wire. This provides ample range with sufficient margin to guarantee perfect transmission for the majority of applications. In instances where a higher loop resistance exists, Long Distance Repeaters may be provided as optional equipment.

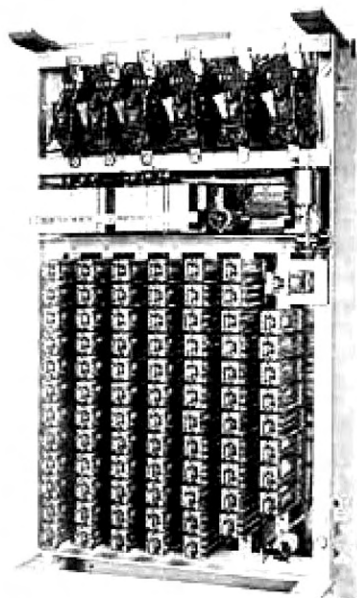
DESCRIPTION OF OPERATION The KMG 25 Automatic Dial Telephone System employs single-motion selector switches in association with flat-type relays.

The KMG 50 and KMG 100 Automatic Dial Telephone Systems employ two-motion selector switches in association with flat-type relays.

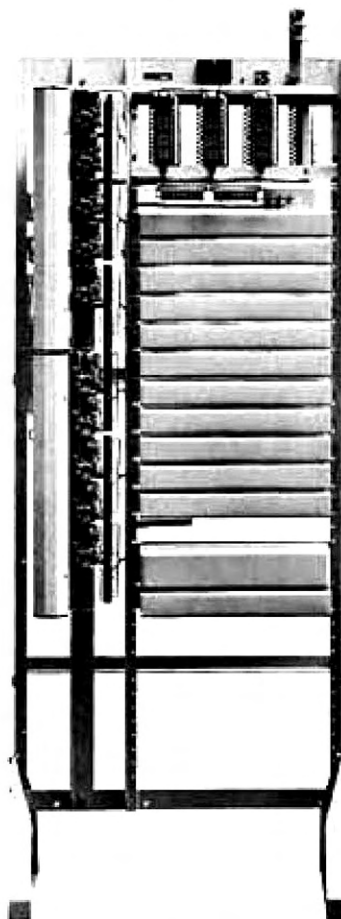
All KMG Systems provide completely automatic telephone switching operations and provide full internal telephone services with special facilities stipulated as standard equipment, plus optional facilities as mentioned elsewhere in this brochure.

POWER SUPPLY Kellogg KMG Automatic Dial Telephone Systems operate on 24 volts d-c, which may be provided by a suitable dry disc rectifier or storage batteries, depending upon installation requirements.

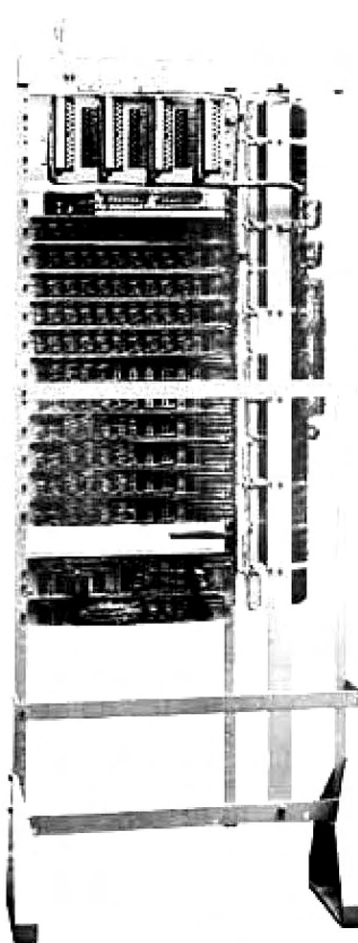
LARGER SYSTEMS Kellogg KMG Automatic Dial Telephone Systems are also available in capacities from 100 extension lines to several thousand. See your Kellogg distributor for full information.



KMG 25: A maximum capacity of 25 extension lines with 3 conversation links; it is fully enclosed in a small, attractive metal cabinet only 21 in. high, 15½ in. wide and 7½ in. deep.



Rack "A"



Rack "B"

KMG 50: A maximum capacity of 50 extension lines with 6 conversation links; The KMG 50/6 consists of Rack "A" shown at right and may be expanded later to 100 extension lines by the addition of Rack "B" shown at right. Each rack is 7 ft. high and 32½ in. wide. Covers are provided for all panels to protect them from dust or other foreign matter.

KMG 100: A maximum capacity of 100 extension lines with 12 conversation links; The KMG 100 consists of Rack "A" and Rack "B" shown at right. Each rack is 7 ft. high and 32½ in. wide. Covers are provided for all panels to protect them from dust or other foreign matter.

OPTIONAL FEATURES AVAILABLE

CODE CALLING OR PAGING The addition of this facility to any *Kellogg KMG* Automatic Dial Telephone System permits automatic operation of signal lights and gongs or horns according to pre-assigned code signals. A prescribed code call extension is dialed, followed by the code call number. Signals are automatically operated. The called party dials a "code call answer" number for direct connection with the caller.

VOICE PAGING When a prescribed Voice Paging extension is dialed, the caller is directly connected with a public address system that permits him to make his page-call or announcement. Upon completion of the page-call or announcement, the caller hangs up and the Voice Paging facility is available for the next caller.

CONFERENCE CIRCUIT Conference Circuit facilities are available for either 5 or

10 parties on a single common talking circuit.

TIE-LINE FACILITIES Two *Kellogg KMG* telephone exchanges, at separate locations, may be interconnected with one another by the use of a simple Tie-Line Adapter. Telephone calls from one exchange to the other are automatically connected by dialing a pre-assigned "tie-line" number, followed by the extension number of the party being called.

LONG DISTANCE REPEATER When the loop resistance of the circuit between the exchange equipment and a telephone instrument exceeds 500 ohms (the maximum allowable for reliable, high-quality telephone service), a Long Distance Repeater may be inserted in such extension line of excessive length.

MOST MODERN HIGH QUALITY TELEPHONES

The *Kellogg DK-500* and *DK-554* series of telephone instruments are the same telephones as are used by commercial telephone companies throughout the U.S.A. for their most modern installations. Superior design, high quality transmission, and long-life assure trouble-free operation for years to come.



DK-500 Telephone



DK-554 Telephone



KELLOGG SWITCHBOARD AND SUPPLY COMPANY

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