"ALL-RELAY"

NORTH

AUTOMATIC TELEPHONE SYSTEMS



Type 3 Capacity 30 Lines 6 Links

The North Electric Mfg. Co., Galion, Ohio



THE "ALL-RELAY" EXCHANGE TYPE No. 3

AN AUTOMATIC TELEPHONE SYSTEM OF PRACTICAL SIZE AND COST

THE "All-Relay" Exchange Type No. 3 is an Automatic Telephone System built along the lines of large city exchanges but of a size adapted to use as an independent privately owned system in offices, factories, schools, colleges and the like.

Low in price, easy to install, simple to operate and free from maintenance costs, this system supplies a long-felt need by solving the problem of inter-communication in an efficient and economical manner.

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* All-Relay" Exchange Type No. 3 30 Lines 6 Links Equipped

NORTH "ALL-RELAY" AUTOMATIC TELEPHONE SYSTEMS



SERVICE ADVANTAGES

The Automatic System handles interdepartmental telephone calls exclusively with the rapidity, accuracy and many other advantages of automatic operation, and leaves the P.B.X. operator free to give undivided attention to the all-important City Service.

The increased efficiency of the interdepartmental service saves valuable time, eliminates unnecessary "visiting" and permits the handling of routine matters with utmost speed and precision.

Increased Efficiency

- Instantaneous connection by merely lifting the receiver and dialling two digits. The called telephone rings automatically and continues to ring intermittently until answered or calling party hangs up.
- 2. Instant automatic notification if the line called is busy.
- 3. Absolute privacy on all organization business.
- 4. 24-hour Service without cost and necessity of an operator.
- 5. An instantaneous means of reaching any department to obtain information necessary to answer an inquiry over the 'city' telephone.

Savings

- 1. The elimination of cost for all or part time of operator.
- 2. The elimination of rental on all extensions not essential to making or receiving outside calls.
- 3. The elimination of rental of P. B. X. switch board by having only the necessary few city phones

on straight line basis or at least reducing size of rental switchboard at corresponding savings.

4. Reduction in excess message cost by replacing city telephones with interior instruments, entirely eliminating personal city calls at these points.

Maintenance

The "All-Relay" Automatic Telephone System, manufactured in this country exclusively by The North Electric Manufacturing Company, is the latest completed development in the Automatic Telephone art. It has been specially designed and constructed to reduce maintenance requirements and costs to the very minimum.

This ideal has been made possible, and a system of utmost reliability and continuity of operation developed, by the use of simple telephone relays. These sturdy single-motion relays take the place of the delicate and troublesome mechanical switches used in other types of automatic equipment.

In this way the MAINTENANCE problem [is solved inasmuch as routine testing, cleaning, repairing, readjusting and all need of lubrication are entirely ELIMINATED.

THE NORTH ELECTRIC MANUFACTURING CO., GALION, OHIO



FEATURES

CODE CALL. A complete automatic paging service, operating from any one of the telephones by dialling two additional digits. The addition of a series of gongs, horns, whistles or lights located at strategic points can be heard or seen simultaneously at any point in the plant thus locating and summoning to the nearest phone instantly the party wanted regardless of where he may be. This equipment can be furnished in sizes capable of coding 6, 36 or 100 employees.

TWO PARTY SERVICE. Each exchange is equipped, without further cost, for party line service in addition to the 30 straight lines. This provides for a capacity of 60 stations on a party line basis. The same selective, intermittent automatic ringing is provided for each party line.

EXECUTIVE LINE SERVICE is provided at no additional cost. This permits an executive's line so equipped to connect to the party called regardless whether the called station is busy or not.

CONFERENCE SERVICE can be furnished at a slight additional cost and enables a number of parties, by dialling the conference number, to confer with each other over the telephone system as easily as if they were face to face.

WATCHMAN'S SERVICE, SECRETARY SERVICE and EMERGENCY ALARM SERV-ICE are other features that can be included to operate on the type No. 3 Telephone System.

SPECIFICATIONS

CAPACITY. Thirty lines and six links; arranged also for party line service up to 30 additional stations.

REQUIREMENTS. It is not necessary to equip for capacity. Any smaller amount of lines or links can be furnished with corresponding cost reductions.

SWITCHBOARD is enclosed in an olive green pressed steel cabinet 52 inches high, 36 inches wide and 12 inches deep. Has swinging doors in front only; the back consisting of a single panel mounted with screws. This permits installing cabinet against the wall.

The terminal strip is mounted in the top of the switchboard and is equipped with binding screws, rather than solder terminals, for the installer's convenience.



A Typical Floor Plan

The POWER PLANT equipment is optional, consisting of either a 24 volt, 24 ampere hour Philco battery in glass jars and associated charging equipment, or an AC-DC transformer (battery eliminator) to operate from A. C. source.

TELEPHONES are supplied in four standard types—wall, flush, desk, and monophone. The last mentioned type can now be supplied in colors at an additional cost. These instruments are of equal quality and are interchangeable with "city" telephones.

THE NORTH ELECTRIC MFG. CO.

ST. LOUIS NEW YORK CLEVELAND BIRMINGHAM ATLANTA SEATTLE GALION, OHIO

BOSTON DENVER DETROIT LOS ANGELES SAN FRANCISCO WASHINGTON, D. C.