

THE NORTH ELECTRIC MFG. CO.

GALION, OHIO

Manufacturers of High Grade Telephone Equipment Since 1884

PRODUCTS

PRIVATE AUTOMATIC EXCHANGES.
"ALL-RELAY" SWITCHING EQUIPMENTS.
AUTOMATIC SIGNALING SYSTEMS.
CITY EXCHANGES—all types.



Hand Telephone

AUTOMATIC TELEPHONE DIALS.
DIRECT CURRENT RELAYS.
SELF-REGULATING RECTIFIERS.
REMOTE CONTROL—AUTOMANUAL.

THE NORTH "ALL-RELAY" PRIVATE AUTOMATIC EXCHANGE

This is an intercommunicating telephone system designed for installation in business offices, factories, hospitals, schools, etc., where it renders rapid, reliable and secret service 24 hours a day without an operator. It is a private system which has no connection with the public telephone system.

Standard dial type telephones are used, which are available in all types and many colors.

The wiring system is of the simplest. A single pair of wires only is required from each telephone to the central exchange equipment, thereby making an economical plant permitting of easy change and expansion at low cost.

"All-Relay" Construction

North "All-Relay" equipment is composed solely of small solidly constructed relays, each comprising only a magnet, a hinged armature, and a group of contact springs. These relays connect with the calling line, register the impulses from the dial, choose the wanted line, test, ring, and perform all the functions of an operator at a manual switchboard.

This "All-Relay" equipment is entirely devoid of the wipers, shafts, gears, ratchets, pawls, latches, coil springs and other like parts of which all selector-type

automatic systems are composed and does not require the delicate adjustment, frequent readjustment, cleaning and lubricating common to such selector systems. Routine maintenance is thereby entirely eliminated.

Operation

To make a call, simply lift the receiver and dial the required number—the exchange does the rest. The called party's bell is rung instantly and repeated intermittently until the call is answered or abandoned. The ring is indicated to the calling party by a distinct signal in the receiver. When the call is answered, ringing is immediately stopped and the line cleared for conversation.

Models

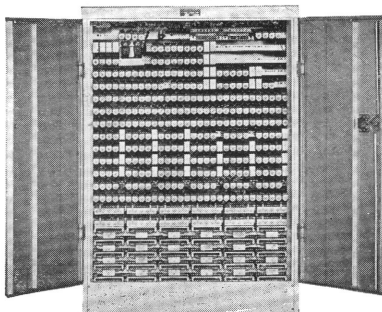
Standard models of "All-Relay" Private Automatic Exchanges are available in 10, 30, 60, 100 and 1000-line capacities. Other sizes and models furnished when required.

Auxiliary Features

Code Call—Two-party service—Executive Right of Way — Conference — Fire Alarm — Departmental — Watchman's Service.

SERVICES

We offer the assistance of our Engineering Organization without obligation to you in planning your requirements.



30-Line "All-Relay" Private Automatic Exchange

A complete sample specification will be furnished on request together with our recommendations for the equipment necessary to meet your conditions.