

**DIAL-X®
AUTOMATIC
SWITCHBOARD**

Model TDX-10

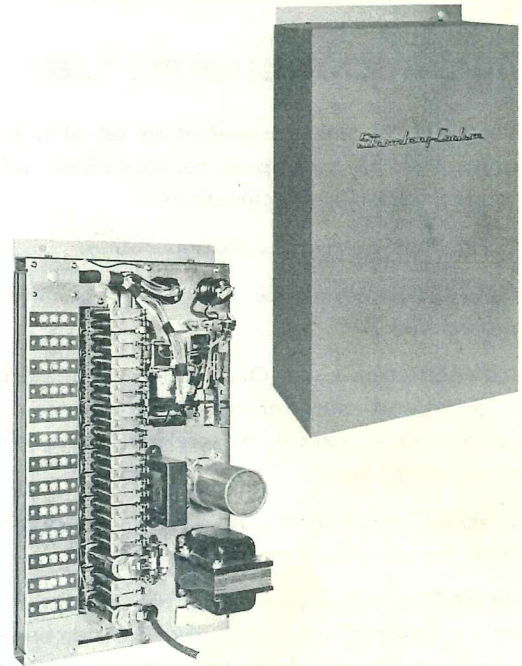
DESCRIPTION AND APPLICATION

Designed for use in any small operation seeking to increase efficiency and minimize communication overhead, the Model TDX-10 Automatic Switchboard provides the switching equipment for a 10-line, low cost, private dial telephone system. This Switchboard is compatible for use with desk and wall type dial telephones, such as Models TD-4500, TD-4510, and TD-91. The DIAL-X 10-line system provides dial tone, simple one-digit automatic dialing, automatic intermittent signalling, and offers several of the functional advantages found in larger (20, 40, and 100-line) DIAL-X and DIALMASTER® systems. Where communication requirements outgrow the capacity of the TDX-10, graduation to the DIAL-X 20 or 40 line systems may be accomplished without obsoleting any originally installed telephones.

The single talking circuit of the TDX-10 Switchboard guarantees absolute privacy of conversation, by means of an exclusive lock-out circuit. Line one may be equipped with a phone and secretary extension where frequent private communication is required between two parties. Communication between these two phones does not require dialing, and will not busy the system. Either of these phones may also dial other phones in the system. This feature makes possible a second limited talk path. An executive right-of-way facility is available to expedite the placement of priority calls by an executive when the system is busy, without invading the privacy of the existing conversation. Built-in switchboard connections easily adapt the DIAL-X 10-line system for voice paging directly from any telephone handset over an existing or subsequently installed sound system.

A compact dustproof steel housing, requiring only 17 x 10 x 6 inches of space, encloses the three major components which comprise the TDX-10 Switchboard: the power chassis, the line selector relays, and — the heart of the system—the dependable stepping switch. This switch has lifetime bifurcated self-cleaning contacts for each circuit, thereby avoiding switching failures common to ordinary stepping switches. The self-contained power supply features extremely low power

(See reverse side)



- Telephone Privacy
- Automatic Signalling
- Automatic Dialing
- Executive Right-of-Way
- Voice Paging
- Lock-out Circuit
- Dependable, Long Life
- Economical
- Easily Installed

consumption, not exceeding 50 watts, at a cost of only pennies per day. Power for the switchboard is obtained from a 110-125 volt, 60 cycle power source.

Finished in fine-wrinkle office grey, the cabinet comes equipped with a six-foot line cord for plugging into any conveniently located electrical outlet. To simplify installation, the switchboard cabinet is completely wired, and includes convenient screw terminals for the termination of telephone line wir-

ing. There is no soldering to be done; a screwdriver is the only tool required to connect the switchboard with the telephone lines. All lines enter the cabinet through one hole located inconspicuously in the bottom of the cabinet.

Many of the same components used in larger commercial systems for municipalities and industries are contained within this small 10-line unit. It is excellent both in its operation and compact styling.

ARCHITECT-ENGINEERS' SPECIFICATIONS

The DIAL-X intercommunication telephone switchboard shall be a compact, self-contained unit meeting the following specifications:

TYPE: Fully automatic, dial operation.

CAPACITY: Wired for ultimate capability of 10 prime lines.

LINKAGE (trunkage): One talking circuit with exclusive lock-out relay for complete privacy of conversation. One executive-secretary circuit line for complete privacy.

SIGNALLING: Entirely automatic. Separate manual operation shall not be required.

PRIVACY: All conversations fully private. Only the calling party and called party shall be connected. It shall not be possible to eavesdrop as all other stations are locked-out.

EXECUTIVE RIGHT-OF-WAY (optional): Line one shall be capable of expediting the placement of priority calls, when the system is busy, by operating a push-button switch and without invading the privacy of the existing conversation.

VOICE PAGING FACILITIES: Optional possibility to assign one line to a paging operator who accepts calls for voice paging. It shall also be possible to have voice paging directly from any telephone in the system by simply dialing the paging number and talking into the telephone handset. Zoned voice paging shall be possible to more than one area by assigning individual line numbers to each zone and all call.

POWER SUPPLY: Silicon rectifier type operating from a 110-125 volt, 60 cycle, power source. Maximum power consumption shall be 50 watts.

WIRING: Standard triplex telephone wiring between each telephone station and the switchboard. Use No. 22 AWG to 750 feet; No. 19 AWG to 1500 feet; No. 18 AWG to 2000 feet. Over 2000 feet use larger wire or long-line adaptor.

CABINET: Steel baseplate with cover enclosure of steel finished in fine-wrinkle grey.

SIZE: 17" high, 10" wide, 6" deep. Wall mounted with only two screws.