



ELECTRONIC COMMUNICATIONS EQUIPMENT

(STROMBERG — CARLSON)

DESCRIPTION AND APPLICATION

The STROM Communications DIALMASTER Private Automatic Dial Telephone System is specifically designed to meet the unique private intercommunication needs of business, institutional and factory operations where maximum communication efficiency, reliability and economy are desired.

The heart of the DIALMASTER System is the compact Model TSB-100 Automatic Switchboard. Requiring less room than a standard two door supply cabinet, the Switchboard incorporates functional modular design utilizing plug-in components and solid state concepts to assure reliability of operation, ease of (rarely required) maintenance, and simplicity of economical expansion.

DIALMASTER'S economy is found not only in its low operating cost but in these important time—conserving, cost-reducing services:

AUTOMATIC SERVICE—up to 14 simultaneous conversations (involving 28 stations users) on each 100-line system, devoted exclusively to internal communication, virtually eliminating "busy-system" delays on both outside and inside service.

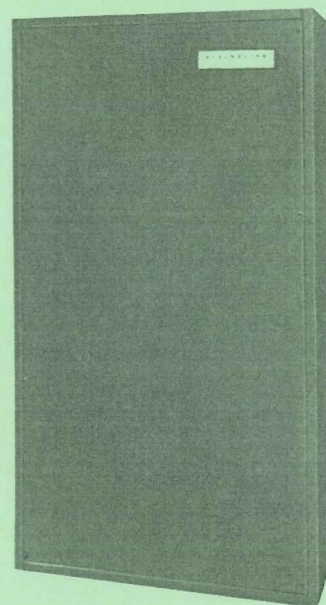
AUTOMATIC INTERMITTENT SIGNALING with no buttons to push.

MULTIPLE CONFERENCE FACILITY, providing two (2) simultaneous meet-me-type conferences each of which may involve up to five (5) station users.

CONFERENCE PRIVACY—(Optional), assures privacy on all conference calls.

COMPLETE COMMUNICATION PRIVACY—only the station dialed is a party to the conversation, all others are locked out.

AUTOMATIC INTERMITTENT BUSY SIGNAL—is heard only when the station dialed is actually in use.



- Complete Telephone Privacy
- Automatic Dial Operation
- Automatic Signalling
- Fast Automatic Service
- Multiple Conference Call Facility
- Automatic Group Hunting
- Executive Right-of-way (Optional)
- Executive-Secretary Intercom (Optional)
- Voice Paging From Any Phone (Optional)
- Central Dictation Hook-up (Optional)
- Economical Operation
- Easily Expandable
- Compact Space-saving Design
- Dependable, Long Life
- Ample Load-free Linkage

**DIALMASTER®
AUTOMATIC
SWITCHBOARD**

Model TSB-100

DIALMASTER® TELEPHONE SYSTEMS



STROM
communications
(STROMBERG — CARLSON)

EXECUTIVE RIGHT-OF-WAY FACILITY—(Optional), permits the override of a busy signal by key executives for prompt handling of priority calls and without invasion of the privacy of the existing conversation.

EXECUTIVE-SECRETARY INTERCOM—(Optional), permits ringing and communication between two telephones on one (1) line without using a link circuit. Each telephone is able to receive calls from, or dial, all other telephones in the system. Either telephone may screen incoming calls and may, by depressing the signal button on the telephone, communicate with the party on the second telephone without the knowledge of the party making the incoming call. This permits effective and orderly transfer and/or appropriate disposition of calls.

DIRECT VOICE PAGING FROM ANY PHONE—(Optional), permits direct voice paging through the handset of any telephone in the system over an existing or subsequently installed voice paging system. (Where preferred, paging may be handled by the receptionist or utility switchboard operator during normal daytime operation.)

AUTOMATIC "LINE HUNT" FACILITY—any combination of telephones, up to six (6), in each of five (5) groups, can be utilized thereby eliminating the need to redial busy departmental stations. DIALMASTER automatically seeks out the first available station.

CENTRAL DICTATION (Optional)—directly from any DIALMASTER telephone through an automatic tie-in with most standard central dictation equipment.

Designed to relieve external communication systems of all internal traffic, DIALMASTER frees the public utility telephone for its originally intended purpose while reducing the communication load currently sustained by many overburdened public utility systems.

DIALMASTER'S facilities for direct telephone-paging hook-up, automatic line-hunt, 24-hour intercommunication, multiple conferencing, executive right-of-way, executive-secretary intercom and central dictation provide added convenience and added relief to the external communication system.

The modular, "building block" design of the switchboard permits simple and economical expansion from two prime telephones up to a capacity of 100-prime telephones on one system. Initial capacity of the board may easily be extended to 200 telephones through the

addition of a Model DRA-1 Divided Ring Adapter. In instances where more than 100-prime lines are required the, Model LEA-1, Local Expander Adapter permits the use of additional TSB-100 switchboards. To achieve necessary switching, DIALMASTER utilizes the same famous XY selector switch, used in countless city exchanges throughout the United States (and in many other parts of the world), known for its dependability. All switching circuits on the XY switch and associated circuits have bifurcated self-cleaning contacts to assure positive operation of the circuits year after year.

To simplify installation and maintenance, all components are designed as plug-in units. Receptacles are provided, within the completely pre-wired switchboard, to accept all related components. Screw terminals are provided in the cabinet for quick and easy connection of the wiring from each telephone.

The TSB-100 Automatic Switchboard and telephones incorporate the same long life, heavy duty components as used nationwide by telephone utilities. Serving many businesses, schools, institutions, and industries throughout the nation, DIALMASTER installations have been providing reliable service 24 hours per day, year after year. Adding important convenience, increased efficiency, facility and economy of operation to every user, DIALMASTER'S modular design and extreme flexibility permits each system to be designed to meet specific communication requirements.

The DIALMASTER switchboard operates directly from regular 120 volt, 50-60 cycle AC power source and can be plugged into any convenient electrical outlet.

The single, compact switchboard cabinet requires no operator and is easily installed. The steel cabinet, which serves as a functional dust cover, is finished in a pleasing fine wrinkle gray. The cabinet, which houses the entirely self-contained DIALMASTER switchboard—power supply and all, measures only 33" wide, 64" high and 21¼" deep.

The STROM Communications Telephone Models TD-4500, TD-4510, TD-91, etc., desk and/or wall type are used with the TSB-100 Automatic Switchboard.

The TSB-100 Automatic Switchboard and telephones incorporate the same long life, heavy duty components as used nationwide by telephone utilities. Many DIALMASTER systems are providing reliable service 24 hours per day, year after year.

ARCHITECT-ENGINEERS' SPECIFICATIONS

The intercommunicating telephone switchboard shall be the compact, self-contained STROM Communications Model TSB-100, or approved equal. It shall meet the following specification and provide functions, as outlined:

TYPE: Fully automatic, dial operation.

CAPACITY: Wired for initial capability of up to 100-lines.

SELECTORS: XY Universal Switch, simple plug-in, completely interchangeable with one another. All switching circuits shall have bifurcated self-cleaning contacts.

LINKAGE (trunkage): Up to 14%, providing as many as 28 simultaneous conversations; equipment not shared with external service; no busy signal unless the station being called is actually in use. A Link Alloter shall be provided to assure even usage of links.

SIGNALING: Entirely automatic and intermittent. Dial tone, busy tone, and ringback tone shall also be provided. Instantaneous ring cut-off when called party lifts the handset of called telephone.

GROUP HUNTING: A maximum of six (6) groups each equipped with up to five (5) lines. Dialing the marking number of a group shall connect the calling party with any idle telephone in the group. Dialing the assigned number of a telephone in the group shall connect the calling party to the desired telephone.

CONFERENCE FACILITIES: Meet-me-type multiple conference facility (Standard); complete privacy—any party participating in a conference shall be able to automatically prevent an additional party or parties from entering the conference (Optional). Conferees shall also have the ability to exit and re-enter conferences when desired.

PRIVACY: All conversations between communicating unshared prime extensions shall be 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. (Exception—Executive Right-of-Way. Complete privacy shall be assured by the introduction of a warning tone prior to cut-in.)

EXECUTIVE RIGHT-OF-WAY: Optional on key personnel lines. This shall permit operation of pushbutton switch for connection to a busy station, but only after activating a warning signal which shall automatically signal the parties conversing that a priority call will intercept, thereby insuring 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 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.

CENTRAL DICTATION: (Optional) Central dictation and control from any telephone in the system shall be in conjunction with external dictation control link conforming to American Standards Association document No. X2.5.21-1959 and shall be compatible with the selected dictation equipment. Operation of dictation equipment shall be accomplished by dialing predetermined numbers.

EXECUTIVE-SECRETARY INTERCOM: (Optional) Ringing and communication between two (2) telephones one (1) line shall be possible without using a link circuit. Each such telephone shall be able to receive calls from, or dial, any other telephone in the system. Either telephone shall also be able to screen incoming calls and by depressing the signal button on the telephone, shall communicate with the party on the second telephone without the knowledge of the party making the incoming call.

PARTY LINE OPERATION: (Optional) Individual ring to each one (1) of two (2) telephones sharing one line. It shall be possible to have a 200 party line telephone capacity, on each TSB-100 Automatic Switchboard, by the addition of a party line adapter. The first party telephone on each line shall have a two (2) digit num-

ber and the second party telephone on each line shall have a three (3) digit number.

EXPANSION: Expansion of the automatic switchboard beyond 100 prime lines shall be possible through the addition of DIALMASTER Model TSB-100 Automatic Switchboards, and the use of four (4) digit dialing.

POWER SUPPLY: Shall incorporate silicone rectifiers providing 48 volt DC output. Standby power consumption—50 watts, maximum power consumption 750 watts @ 120 VAC for fully equipped switchboard. All neces-

sary voltages needed to power the switchboard shall be provided by the power supply.

WIRING: Standard triplex telephone wiring between each telephone station and the centrally located switchboard. Wiring maximum loop resistance shall not exceed 200 ohms.

CABINET: Angle iron frame with outside housing of steel, finished in fine-wrinkle grey.

SIZE: 64" high, 33" wide, 21¼" deep.

