



## ELECTRONIC COMMUNICATIONS EQUIPMENT

( STROMBERG — CARLSON )

### DESCRIPTION AND APPLICATION

For time-saving, step-saving internal telephone communications the TD-4500 Desk Telephone is designed for use with STROM Communications private automatic telephone systems such as DIALMASTER and DIAL-X. The TD-4500 can be used with TSB-100 DIALMASTER switchboard or any one of the three DIAL-X switchboards—TDX-10, TDX-20A or TDX-40F. The TD-4500 may be used in the system exclusively or in conjunction with TD-4510 wall telephones or with TD-91 side-mounting telephones depending upon individual requirements.

The TD-4500 Telephone offers simplicity of operation and high quality of voice transmission similar to instruments employed in public utilities telephone networks. Smart, modern styling make it an asset to the décor of any office, plant or business establishment. The TD-4500 telephone offers quick, easy, digit-dialing, with distinctive buzzer signaling and complete privacy of conversation. The easy-to-read dial is the latest design with clear plastic finger plate built for durability. The precision dial mechanism is completely enclosed in a dust-tight cover to assure long-life and trouble-free service. A large number card is provided in the center of the dial for positive, individual station identification. The graceful instrument housing and handset are moulded of tough, lightweight thermoplastic. The TD-4500 is available in a wide selection of decorator colors selected to enhance any location in which the telephone is placed. The kink-resistant cord is insulated with a tough scuff-proof plastic covering and is in a color matching the telephone.

A rugged handset cradle operates a hookswitch completely enclosed in a plastic dust-cover. Each switch circuit is made through self-cleaning twin contacts to assure long-life service.

The TD-4500 is a balanced line instrument with standard commercial telephone impedance of 600 ohms. For signaling it employs a high impedance, vibrating armature buzzer to provide a distinctive tone. The volume level of the buzzer may be readily adjusted by a telephone technician for high or low level signaling. Conversion to bell signaling can be effected through the use of a simple modification kit. Numbered screw terminals and standard color coding of the line cord permit easy connection of the TD-4500 to the telephone system.



- Modern Styling
- Decorator Colors
- Matching Coil Cord
- Full Range Transmission
- Twin-Contact Hookswitch
- Buzzer Signaling

All operating components are mounted on a rigid steel baseplate which assures precise mechanical alignment of all components within the telephone housing. Components are readily accessible for preventive maintenance or replacement by simply loosening one recessed screw and lifting off the plastic housing.

Both the transmitter and receiver are high efficiency capsule units. Reproduction of voice frequency is life-like and pleasing regardless of the position in which the handset is held. The TD-4500 incorporates the latest design in L/C network and line compensation circuitry plus an efficient contact protection circuit to assure complete circuit protection for both the DIAL-X and DIALMASTER systems.

(See reverse side)

DIAL TELEPHONES



**STROM**  
communications  
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## ARCHITECT-ENGINEERS' SPECIFICATIONS

- **Type:** Desk model dial telephone, automatic.
- **Housing and Handset:** Moulded of tough, light-weight thermoplastic.
- **Base:** Rigid steel to mount all components in strict alignment.
- **Dial:** Clear plastic finger wheel, scratch-resistant number plate.
- **Signaling Device:** Self-contained, high impedance, vibrating armature type buzzer, 60 cycles.
- **Hookswitch:** Twin-contact, dust-cover protected.
- **Transmitter and Receiver:** High efficiency, standard commercial capsule units that provide superior voice reproduction irrespective of position in which telephone is held.
- **Handset Cord:** Coiled type, plastic jacket, colors to match housing, extends to 5 feet.
- **Induction Coil Network:** Standard commercial quality with bridge network to adjust sidetone and transmission level irrespective of loop resistance. Network suitably potted to protect components from moisture.

- **Impedance:** 600 ohms.
- **Interference Suppression:** Suppression circuits to eliminate annoying clicks while dialing or upon actuation of the hookswitch.
- **Line Cord:** Plastic jacket, color to match housing terminal block furnished with each phone.
- **Colors:** The TD-4500 is available in the following colors:

Color	Type No.
Black	TD-4500-B
Sand Beige	TD-4500-SB
Chinese Red	TD-4500-CR
Light Grey	TD-4500-LG
Antique Ivory	TD-4500-AI
Olive Green	TD-4500-OG
White	TD-4500-W

- **Size:** 9" deep, 8½" wide over handset, 5" high over handset.
- **Net Weight:** 2½ lbs. (approx.).
- **Terminal Block:** A terminal block with plastic cover and base of moulded plastic furnished with each telephone.