

***AUTOMATIC ELECTRIC***

LEICH

**40-60D**

***P-A-X***

business  
telephone  
system

Up to 60 lines, with 6 simultaneous conversations.

*P-A-X is a private telephone system  
which provides efficient and economical internal communications in  
business offices, institutions, department stores, railroad  
and pipeline operations, and industrial plants. It is built  
to telephone industry standards  
by the originator of automatic dial telephones.*

**P-A-X**



The **40-60D** is a commercial type automatic telephone system using standard dial telephones. It's completely dependable and is always available to handle your internal telephone communications — twenty-four hours a day, without an operator, without monthly rental costs.

Switchboards are normally furnished with 40 telephone lines, and are wired for convenient expansion to 60 line service through the addition of a 20 line plug-in unit. The system provides up to six simultaneous telephone conversations, and may be arranged for either one- or two-party service.

Like all Automatic Electric P-A-X systems, the Leich 40-60D is completely separate from your rented telephone service. Because you are the sole owner of your system, you benefit from all the economy and efficiency of private ownership. Important "outside" calls are never side-tracked by "inside" traffic.

Switching equipment and other components are all first-line commercial units, identical to the equipment used by telephone companies. The 40-60D switchboard offers every feature of modern automatic telephone service, including:

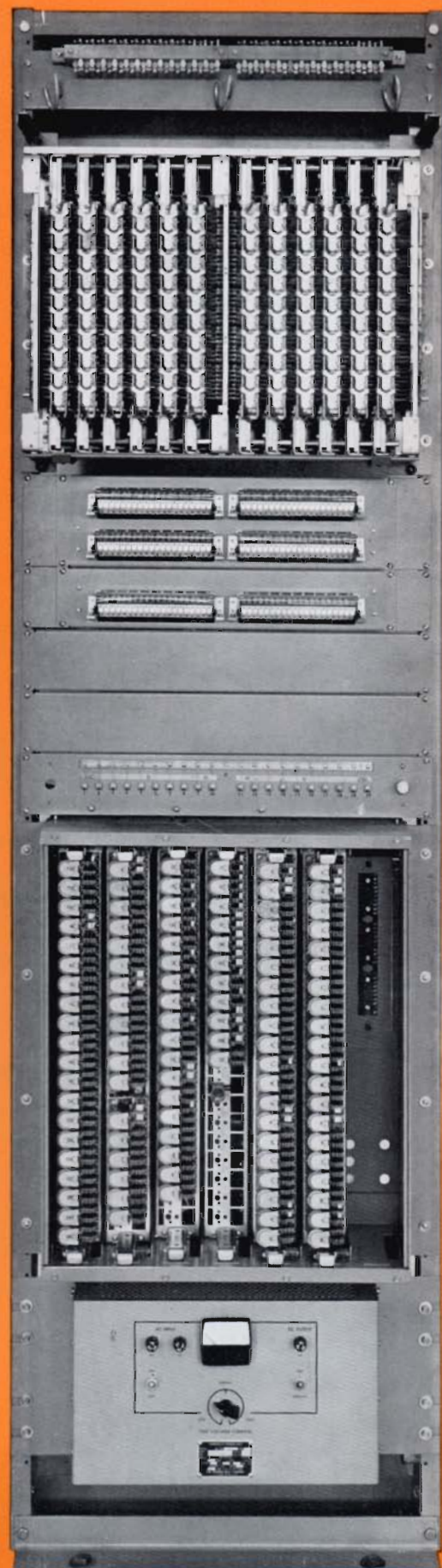
Dial Tone ■ Conventional Dialing (2 digits) ■ Automatic Selective Signaling ■ Automatic Intermittent Ringing ■ Ring-Back Tone ■ Busy Signal ■ Full Privacy (one-party line installations).

The convenience, control and efficiency of having your own private telephone system is further enhanced by the basic economy of the "package-unit" design of the Leich 40-60D P-A-X which holds installation costs to a minimum.

*Note: If a larger system is required, ask about our 100-D or our expansible type board, Type 75.*

## INSTALLATION NOTES

1. Centralized location of the Control Unit is desirable to avoid excessive wiring.
2. Control Unit area must be free of moisture, dust and excessive heat.
3. All P-A-X lines are terminated to the Line Distribution Panel on top of Control Unit.
4. A 110-volt AC outlet is required.
5. Installation area should measure approximately 3 feet by 3 feet by 8 feet high to provide adequate space for access and ventilation.
6. Complete instructions for installation and testing equipment are furnished to enable your technically qualified personnel to make installation, or we will be glad to arrange installation for you through one of our approved distributors.





# Leich 40-60D P-A-X

## PACKAGED CONTROL UNIT

The Leich 40-60D automatic exchange is a complete packaged unit consisting of cross point switches, relay bars, a 48 volt rectifier, transistorized tone and ringing equipment, and a line distribution panel. Line relays, cross point switches and relay bars are protected by plastic covers.

The unit is 7'3" high, 2'9 $\frac{1}{16}$ " wide and 1'3 $\frac{1}{2}$ " deep. The all-steel frame is finished with neutral gray enamel. Approximate installed weight is 475 pounds.

*enjoy reliable, high-speed, "inside"  
communications, exactly right  
for your organization . . .  
offering the efficiency and convenience  
of private ownership!*

## Auxiliary Services Available With This System

In addition to all the standard benefits of a P-A-X system, the Leich 40-60D offers any one of the following optional features to make the service even more valuable and convenient for your organization:

- Trunk service to another P-A-X or PABX
- Code Call — 36 two-digit codes
- Executive right-of-way
- Rotary line groups
- Public address system access
- "Meet-me" conference

Detailed information on each of these services available on request. Please write for pertinent literature.

## P-A-X TELEPHONES

*Equip your 40-60D system with your choice of telephones from the complete line of Automatic Electric P-A-X instruments.*

*You will want Type 80 and 90 models for your system . . . and, certainly, at least one Type 880 — the unique "no-hands"*

*Executive Loud-Speaking telephone. Telephones are engineered for any of a variety of locations.*

*Smart design and smooth dialing are characteristic of all P-A-X telephones. To add eye-appeal, you may choose from several sparkling colors and black.*



THE TYPE 183 P-A-X TELEPHONE



THE TYPE 80 P-A-X DESK TELEPHONE



THE TYPE 90 P-A-X WALL TELEPHONE



THE TYPE AM-10 P-A-X OUTDOOR TELEPHONE



THE TYPE 880 P-A-X  
"EXECUTIVE" LOUD-SPEAKING TELEPHONE



LEICH

**40-600**60 line P-A-X  
business telephone system

## specifications and operation

**CONTROL UNIT:** Fully automatic — always available for dependable 'round-the-clock service. No operator required. Completely equipped to serve 40 private lines (expandable to 60 lines) with six simultaneous conversations.

**METHOD OF OPERATION:** Similar to regular commercial telephone equipment. Merely lift the handset and listen for the dial tone. Then, dial a two-digit number and you are connected to the phone of the called party. Ringing is automatic, and you hear a ring-back tone or busy signal just as you do on your "outside" calls.

**POWER:** Switching equipment operates from standard commercial current (110 volt, a.c.) through a 3 ampere, 48 volt battery eliminator.

**TELEPHONES:** Standard commercial type Automatic Electric dial telephones in your choice of models and colors.

**TELEPHONE NUMBERS:** Up to 60 two-digit numbers are available for one-party service, and an additional 40 two-digit numbers may be used with second parties on lines.

**WIRING:** Inexpensive standard 22-gauge interior twisted-pair wire for one-party line service and triple wire for 2-party line service. When a number of telephones are located together, at a considerable distance from the main control unit, plastic covered cable is recommended. When telephone lines are used to connect two or more buildings and are exposed to the weather, sub-station protectors are also recommended for switchboard end and station end.

**OPERATING RANGE:** Maximum loop resistance of each individual station line can be 1000 ohms; this is the equivalent of over 5 miles of 22 gauge, 2 conductor wire.

## AUTOMATIC ELECTRIC SALES CORPORATION

NORTHLAKE, ILLINOIS

### Salesmen

ATLANTA, GA., 361 East Paces Ferry Road, N. E. ....	237-8619	MINNEAPOLIS, MINN., 7600 Highway #7 .....	West 5-3481
BRYN MAWR, PA., 770 Lancaster Ave. ....	Lawrence 5-7575	*NEW YORK, N. Y., 845 Third Ave. ....	Murray Hill 7-3050
BURLINGAME, CALIF. (San Francisco Suburb)		*NORTHLAKE, ILL. (Chicago Suburb)	
1811 Adrian Road .....	Oxford 7-6400	562-7100 .....	Chicago Phone: EStebrook 9-4300
CLEVELAND, OHIO, 4848 W. 130th St. ....	941-7575	ROCHESTER, N. Y., 1039 Monroe Ave. ....	Greenfield 3-1823
DALLAS, TEXAS, 8920 Premier Row .....	MEIrose 1-3105	ST. LOUIS, MO., 1921 So. Brentwood Blvd. ...	Woodland 1-1147
DAYTON, OHIO, 2801 Far Hills .....	AXminster 9-6481	SPRINGFIELD, VA., Shirley Hwy. & Edsall Rd. .	Fleetwood 4-1811
DETROIT, MICH., 18505 West Eight Mile Road .....	538-6040	WALTHAM, MASS. (Boston Suburb)	
KANSAS CITY, MO., 2021 Main St. ....	Harrison 1-7575	751 Main St. ....	Twinbrook 9-8638
*LOS ANGELES, CALIF., 4415 W. Pico Blvd. ....	WEbster 8-2093	*District Office	

# AUTOMATIC ELECTRIC

Subsidiary of

**GENERAL TELEPHONE & ELECTRONICS**