

PRO-XL 616™

ELECTRONIC KEY TELEPHONE SYSTEM INSTALLATION MANUAL

PATENT PENDING



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TELEPHONE COMPANY NOTIFICATION

Before connecting the PRO-616 System to the Telephone Network, the telephone company must be provided with the following:

1. Your telephone number -
2. FCC Registration Number - EQV5YG-15239-MF-T
3. Ringer Equivalence Number - 3.1B
4. USOC jack required - RJ25C
5. 2-wire loop start
6. Complies with FCC Part 68, Part 15, Subparagraph J, Class A

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INTRODUCTION

This manual provides the information required to install and maintain the PRO-616 Electronic Key Telephone System. Areas covered include standard precautions relating to lightning and proper handling of electronic circuit boards, technical specifications, site selection, hardware installation and programming.

It is necessary that the installer read this document prior to beginning installation.

A User's Guide is provided with each phone.

Special care has been taken during the design of the PRO-616 to reduce the time required to install the system. Through careful quality manufacturing, many steps have been eliminated from installation and programming.

The KSU is shipped with the MCU Main Control Unit, the POWU Power Card and an 8STAU 8 Station Card in place. This basic equipment will accommodate six C.O. lines and eight stations using any combination of basic handsfree phones and speakerphones.

There are three options:

- a. BLFU - Busy Lamp Card
- b. Second 8STAU Circuit Board which provides an additional 8 stations.
- c. Externally mounted PFTU - Power Failure Transfer Unit.

The programming of system functions, timings and features has been simplified to save additional time. One simple chart provides all the information necessary to program the system from Station 10.

We sincerely believe you will find the PRO-616 to be the easiest 616 you have ever installed and that your customer will enjoy years of trouble free service from this system.

LIGHTNING

Lightning, static charges in the atmosphere, will always discharge through the strongest available earth ground.

Telephone equipment usually has several entrances through which lightning can enter and damage its electronic components such as AC power, C.O. lines and off premise extensions. Usually all of these entrances are protected and all of the protective devices must be grounded to be effective. Additionally, the KSU frame is usually grounded. Often, different earth grounds are used for each type of device.

With several entrances, each grounded to a different earth ground, lightning damage to the equipment is caused by the differences in the potential of each ground. Some of the static charge can jump the protector having a lower ground potential and go through the equipment to a ground having a higher potential.

To prevent problems caused by grounds with different potentials, it is imperative to bond all grounds with size 10 AWG or larger copper wire to balance the potential of all grounds.

NOTE: A good ground potential is less than 5 ohms.

IMPORTANT: Never install or remove circuit boards from electronic equipment while the power is on.

PROPER HANDLING OF CIRCUIT BOARDS

Special care must be taken when handling electronic components or cards. It is always necessary to discharge static electricity acquired from your clothing or through movement over carpeting, etc. This static electricity is discharged by touching an earth ground.

Any electronic circuit board is very sensitive to and may be damaged by static charges, extreme humidity levels, moisture or extreme temperatures. The handling of electronic components on a card or the wiring between components will cause damage due to static charges or moisture from your hand.

Close proximity to certain types of electrical equipment such as copying machines, fax machines, electrical motors, etc. will also damage electronic components. Certain copying and fax machines distribute a fine chemical mist that may build up and cause corrosion on electronic components.

Due to the sensitive nature of all circuit boards, it is strongly recommended that each board remain in its anti-static plastic bag until ready for installation. Special care should be taken not to drop or stack circuit boards. Never attempt to field-repair a circuit board.

IMPORTANT: Never install or remove circuit boards from electronic equipment while the power is on.