

# ARCHITECTURAL SPECIFICATIONS

## Tec VIII Telephone Entry Control

### General Requirements:

The unit shall be a microprocessor controlled telephone entry device housed in a weather resistant aluminum cabinet. The unit shall have a four line, LED backlit Liquid Crystal Display (LCD) capable of being read in direct bright sunlight or in total darkness. The display shall show eight resident's names and these shall be fourteen characters in length. Names shall appear in alphabetical order. It shall scroll forward by pressing and holding down the # key and backward by pressing and holding the \* key.

The unit shall have a gasket and chrome plated marine zinc metallic touch keypad. The speaker shall have a Mylar cone and shall be sealed from the environment. The unit shall incorporate Personal Identification Numbers (PIN's), at least one per programmed telephone number, providing an electronic means of operating entrance utilizing the unit's own keypad. The unit shall allow the programming of a strike-out feature making the keypad inoperative for sixty seconds after the programmed number of invalid PIN's are attempted.

The unit shall be configurable with memory capacities in increments of 16, 30, 50, 75, 100, 150, 250, 500, 750, 1000, 2000 residents' names and phone numbers. These codes, as well as the PIN's may be set for the system to be 6 digits in length, programmable on site. The called party may activate the door control relay(s) in the unit by dialing a system programmed number, 1-9, on their own phone.

The unit shall be capable of operating with either AC or DC power. The unit shall provide dry contact(s) for the first two relays mechanism(s). jumper selectable normally open (NO) or normally closed (NC). The unit shall be able to withstand at least 20,000 volts of electrostatic discharge without damage to its functions. The unit shall further possess transient voltage protection as part of its power supply circuits, phone line interface and relay contacts.

The memory type shall be non-volatile, and shall retain stored data including buffer information without external power for a minimum of ten years.

### Functional Specifications:

The unit shall be capable of either rotary or Touch Tone™ dial out, field programmable. The unit shall mute tones during dial-out sequence and shall not accept Touch Tone™ through its microphone. The unit shall allow open keypad for voice mail capabilities of the called telephone number. The unit shall allow latching of relay(s) through a Touch Tone™ phone using a two digit control code, and a command code.

Automatic unlock and relock may be made to follow specified time zones, using the optional clock/calendar feature. Programming functions require a six digit passcode to be entered on the unit's keypad. When required, the unit shall allow alpha-numeric characters to be programmed via the keypad. The unit shall be capable of dialing telephone numbers up to 14 digits in length. These numbers may be local or long distance. A pause may be inserted before or after any digit. The unit shall allow dialing extensions in a telephone switch or an outside line from the switch.

Programming shall be possible from any of the following methods; the unit's keypad, an IBM XT style keyboard, a terminal, a personal computer in terminal emulation mode, a person computer equipped with modem, and directly through Touch Tone™. It shall upload and download data from a PC, equipped with a modem, and appropriate software to and from the unit.

The unit's standard and two optional second and third door control modules shall each have two inputs and two outputs. This will allow each to 1. Unlock entrance, 2. Shunt alarm, 3. Sense door position, and 4. Allow a request to exit or egress. The optional third relay package may also be capable of being configured to activate another device; such as a camera or light, and to activate an alarm in a forced door condition.

