

**Linear**<sup>®</sup>  
*Building On Innovation.*

**AE1000Plus  
Telephone Entry  
for up to Four Doors/Gates**



**A multi-tenant system  
network-ready for expansion.**

# The AE1000Plus.

## Telephone Entry as Easy as

The guiding principle behind Linear's AE1000Plus is that a telephone entry system should be a model of simplicity. Easy to specify. Easy to install. Easy to configure. Easy to expand. And above all, easy to use.

A close examination of every aspect of this feature-rich system reveals that ease is an across-the-board attribute.

Thanks to networking capabilities, the AE1000Plus can be expanded for requirements of up to 10,000 users. Commercial sites like apartments, condominiums, dormitories, and hospitals can all benefit from its simplicity and its expansive range of capabilities.

The AE1000Plus provides control for any combination of four portals (gates and/or doors). It includes a built-in radio for adding remote control via user transmitters, a function enhanced by the fact that Linear is also a leader in RF technology and offers the industry's widest range of transmitter styles.

No matter what size your telephone entry requirements run, it is likely that Linear can supply a system. With many years in the field, we have assembled a family of products to address nearly every need.

By every meaningful measure, Linear makes telephone entry easy.

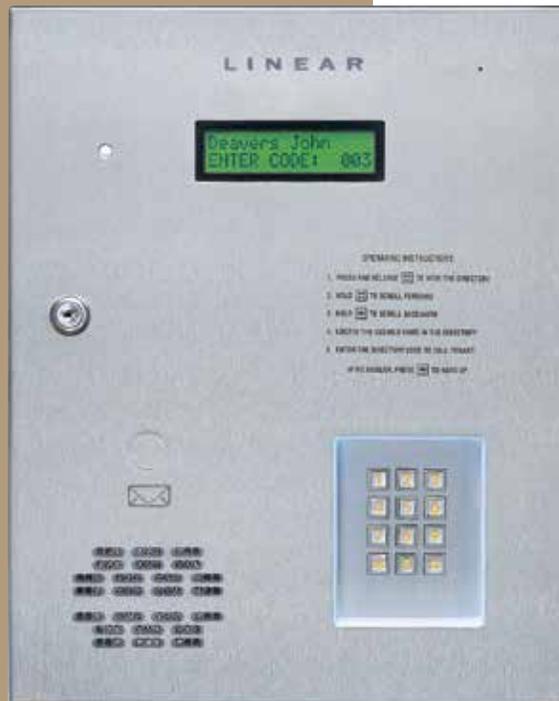
### NOT JUST TELEPHONE ENTRY. TELEPHONE ENTRY WITH ACCESS CONTROL.

You could use the AE1000Plus as just a telephone entry system. It has a 10,000 user capacity and each user can have a unique directory code. Handy features like a programmable display message, adjustable talk time, and extended talk time per user add more value. However, the real benefits of the AE1000Plus stem from its powerful access control capabilities. Access can be allowed or denied based on 32 programmable criteria

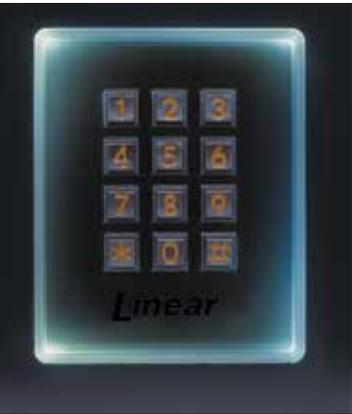
— security levels (32 Validation Groups), by date and time (32 Time Zones), by door (32 Door Schedules), and by floor (32 Floor Schedules). In addition, so you can keep a running check of all entrances and exits, the AE1000Plus maintains a transaction log of the last 20,000 events.

### RUGGEDLY BUILT FOR EVERYDAY USE.

Telephone entry systems get a lot of use (and sometimes even abuse). The system is housed in a heavy-duty 16 gauge powder coated steel cabinet with a 16 gauge brushed stainless steel front panel. Its built-in, recessed, 12-button, metal keypad is likewise manufactured for constant pressure applied by many fingertips



over many years. Surround lighting makes it easy to read even after hours. That lighting is supplied by LEDs that



remain on all the time at 50% intensity; once a key is pressed, the LEDs illuminate at 100% intensity for a period of two minutes. The other high visibility component is a 2 line by 16 character transfective,

backlit LCD that brightly displays the system's user directory, as well as a helpful series of user prompts.

### MEGACODE® INSIDE. TELEPHONE ENTRY WITH WIRELESS!

Like all Linear telephone entry systems, the AE1000Plus includes the added value of a built-in wireless receiver and antenna. But this is not just any wireless receiver. It's the MegaCode® radio by Linear, the people who pioneered radio frequency based security and access control. The famous MegaCode® unit allows the use of handheld, visor clip, and keychain transmitters (the industry's largest selection) to achieve additional remote control over gates and door openers. Its code selection from over one million factory-set possibilities that cannot be changed in the field assures the highest protection against code theft and duplication. Use of block-coded transmitters dramatically simplifies the programming process. A choice of optional antennas extends the AE1000Plus's range. The EXA-1000 is a remote, omni directional model that includes mounting hardware and five feet of cable. The EXA-2000 is a remote directional-type model that comes with mounting hardware and ten feet of cable.



### IN LIVING COLOR. AN OPTIONAL CCTV CAMERA.

Getting a clear picture of what's going on at any entrance at any given time is as easy as adding an optional, color cctv camera (CCM-1A) to the AE1000Plus. It installs inside and receives power from the control board. The color camera doesn't just add value to the AE1000Plus; it adds security to any installation. You can add a CPDM-1 to combine the video signal with an existing CATV network. This will allow all tenants in a development to view on their TVs, who is calling them from the AE1000Plus.



### CONTROL FUNCTIONS BEYOND THE DOOR AND/OR GATE.

The AE1000Plus has four built-in general purpose (form "C") relays. Each can be configured for open/close. Any one can be used for the control relay and the others for a myriad of auxiliary control functions, including activation of safety edge reverse, external lighting, or alarm shunting. In addition, the AE1000Plus supports *request to exit* and *door status* monitoring for each relay. All relay contacts have extensive RFI, arc, and lightning suppression.

### INSTALLATION CHOICES ABOUND.

The AE1000Plus can go just about anywhere telephone entry is needed. Its stainless steel cabinet can be either surface or gooseneck mounted as standard. For flush or recessed mounting, an optional trim ring is available.

### TWO PROGRAMMING CHOICES:

AE1000Plus now offers you two programming choices. Use any PC at any location to access programming using Linear's AXNET that is built into the controller. Or use a dedicated PC to access programming using Linear's

AccessBase2000 software. Both choices allow multiple unit connectivity (see capabilities in the table on the back page).

### MORE OPTIONS FOR A FULL-FEATURED SYSTEM.

In addition to the aforementioned remote control transmitters, color CCTV monitoring, alternative mounting accessories, and extended range antennas, the AE1000Plus can be easily equipped with other valuable options. For instance, thanks to two sets of Wiegand inputs, keypads, remote receivers, and card readers can be added for access control at other entrances..



# General Specifications

## COMMUNICATIONS

Full Duplex, hands free operation

## PROGRAMMING

**Telephone Entry:** 1-4 digit directory code length, display messages, talk time duration, extended talk time per user

## OUTPUTS

**Relay:** 4 form "C" relays; all can be configured for open/close; all relay contacts have extensive RFI, arc and lightning suppression

**RS232:** for local computer communications

**Modem:** for remote programming

**Video:** BNC connector for optional color camera

## DISPLAY

**Front Panel:** LCD technology, 2 lines by 16 characters

**Keypad Lighting:** surround LED lighting for the front panel keypad; LEDs remain on at 50% intensity until a key is pressed; once a key is pressed, LEDs illuminate at 100% intensity for a period of 2 minutes

## INPUTS

**PBUS:** 3 sets of inputs for connecting up to 6 proprietary addressable devices

**Wiegand:** 2 sets of Wiegand inputs for connecting 26, 30, or 31 bit Wiegand devices; each Wiegand input supports two reader LED indicators

**RF:** Internal 318 MHz super heterodyne receiver with -100 dBm sensitivity; built-in 20 dB adjustable attenuator for fine tuning performance; antenna required for transmitters

**Request To Exit:** 4 normally open inputs; each input assigned to specific relay

**LEDs:** for configuration, status, and troubleshooting

**Door Sense:** 4 normally closed inputs used to monitor the status of the controlled portal to support forced door/propped door alarm; also for auto-relock

## POWER

12/24 VAC or VDC; 16 VAC transformer included

## OPERATING TEMPERATURE

-22° to +149°F

## DIMENSIONS

16.25" H x 13.0" W x 3.5" D

**Optional Trim Ring:** 18.25" H x 15.0" W x 2.75" D

## CLOCK/CALENDAR

built-in 24-hour clock/calendar with battery back-up and daylight savings adjustment

## ENCLOSURE

16 gauge powder coated steel cabinet; 16 gauge brushed stainless steel front panel

## OPTIONAL EQUIPMENT

**CCM-1A:** color camera receives power from control board

**CPDM-1:** digital modulator converts raw video output of camera to TV channel for distribution

**TR-1000:** trim ring for flush/recess mounting

## ANTENNAS

**EXA-1000:** remote, omni directional; includes mounting hardware and five feet of cable

**EXA-2000:** remote, directional-type; includes mounting hardware and ten feet of cable

### Capabilities with AccessBase2000 Programming

Programming through dedicated PC
Up to 10,000 cardholders grouped in sets
Up to 24 card blocks with up to 1,900 cards each (45,600 total)
Up to 20,000 individually enrolled cards
Up to 24 transmitter blocks with up to 1,900 transmitters each (45,000 total)
Up to 20,000 individually enrolled transmitters
Up to 20,000 entry codes for cardholders
Up to 10,000 telephone directory codes for cardholders
10,000 event log entries per unit
Up to 31 access time zones
Up to six PBUS and two Wiegand devices per unit

### Capabilities with AXNET Programming

Programming using ANY PC through browser software
Up to 2,000 cardholders
Up to 24 card blocks with up to 1,600 cards each (38,000 total)
Up to 2,000 individually enrolled cards
Up to 24 transmitter blocks with up to 1,600 transmitters each (38,400 total)
Up to 2,000 individually enrolled transmitters
Up to 2,000 key codes
Up to 2,000 telephone directory codes
2,500 event log entries per unit
Up to eight access time zones
Up to four PBUS and two Wiegand devices per unit



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