Linear ACCESS®

AE-1000

Telephone Entry for up to Four Doors/Gates

A multi-tenant system network-ready for expansion.

The AE-1000.

Telephone entry as easy as 1 2 3

The guiding principle behind Linear's AE-1000 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 AE-1000 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 AE-1000 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 AE-1000 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 AE-1000 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 AE-1000 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 transflective, 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 AE-1000 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 garage 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 AE-1000'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-1) to the AE-1000. It installs inside and receives power from the control board. The color camera doesn't just add value to the AE-1000; 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 AE-1000.

CONTROL FUNCTIONS BEYOND THE DOOR AND/OR GATE.

The AE-1000 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 AE-1000 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 AE-1000 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.

COMPLETE CONFIGURATION FLEXIBILITY.

For local computer communications, there is an RS232 port. For remote programming, the AE-1000 has a built-in modem. Linear's AccessBase 2000 software allows you to network up to eight controllers (AE-1000, AE-2000, or AM-3) via an RS-485 connection and/or eight different dial-up locations via modem for a total of 256 doors or gates.

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 AE-1000 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. In addition, the AE-1000 can be equipped with a No Phone Bill (NPB) interface module to allow it to bypass the central office and connect directly to a user's phone system, thus eliminating the need for a separate phone line to the AE-1000. Similarly, a Multiple Input/Output (MIO) interface module is available for monitoring and control of additional points. It can also be used for elevator control.

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

ACCESS CONTROL:
32 Validation Groups (Security Levels): Validation Groups let user allow or deny access based on date/time (Time Zones), door (Door Schedule), or floor (Floor Schedule) 32 Time Zones, 32 Door Schedules, 32 Floor Schedules

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

RS232: for local computer communications — 33.6 Kbps

Modem: for remote programming — 33.6 Kbps

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 for connecting proprietary addressable devices

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

RF: 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

Access Buttons: 4 pushbuttons used to manually control each of the 4 relays

LEDs: for configuration, status, and troubleshooting

Door Status: 4 normally closed inputs used to monitor the status of the device connected to the relay for a forced door/propped door alarm; supports auto-relock once the device is restored

POWER
12/24 VAC or VDC

OPERATING TEMPERATURE
-22° to +149°F

DIMENSIONS
16.25" H x 13.0"W x 3.5" D (413 x 330 x 89 mm)

Optional Trim Ring: 18.25" H x 15.0"W x 2.75" D (464 x 381 x 70 mm)

MEMORY
10,000 users; each can have directory code, keypad entry code, and card or transmitter; 20,000 event transaction log; data stored in field upgradeable FLASH memory

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

CONNECTIONS
all connections grouped together in neighborhoods for ease of installation and maintenance; wire connections via removable terminal blocks

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

STANDARD EQUIPMENT
AE-1000 Four Portal (with full access control) Telephone Entry system with built-in radio receiver, RS232 port, and modem; accepts transmitters, keypads, and card readers as inputs; surface or gooseneck mounting standard

OPTIONAL EQUIPMENT
CCM-1: color camera receives power from control board

CPDM-1: digital modulator combines video output of camera with CATV source to allow tenants to view on their TVs who is at the AE-1000

TR-1000: trim ring for flush/recess mounting

MIO Interface Module: multiple Input/Output modules for monitoring and control of additional points; can also be used for elevator control (call for availability)

No Phone Bill Interface: NPB interface modules allow AE-1000 to bypass central office and connect directly to user's phone system, eliminating need for phone line at AE-1000 (call for availability)

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

Power Door Products

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