

NORTEK

SECURITY & CONTROL

ACCESS – Access Control
Master Index

TRANS PROX™ Family

Integrated Transmitter and 125 KHz Proximity Tag

Ideal for door and gate access systems and garage door operators

TRANS PROX™ General Features

- Choices of Linear and other certain HID 125kHz proximity formats and card readers
- Block-coded to one of 15 facility codes
- Quick and easy to enroll
- Available in single-channel and 4-channel packages
- Supplied with quick-disconnect key ring
- Long-lasting lithium batteries
- Ruggedly built for everyday use

TRANS PROX™



Single-button
TRANS PROX™
Model # ACT-31D/H
Part #ACP00957

4-button
TRANS PROX™
Model # ACT-34DH
Part #ACP00958

Factory Block Coded

TRANS PROX™

- Works with AM-DPR and most 125kHz HID proximity formats and card readers
- Compatible with MegaCode™ receivers
- Same facility and ID codes for transmitter and proximity tag
- 26-Bit Wiegand format
- Ideal for multi-tenant, residential, and commercial building applications
- Add radio capability for any access controller that can accept wiegand input (use WOR)

TRANS PROX™ 31DHC/34DHC



Single-button
TRANS PROX™
Model # ACT-31DHC
Part #ACP00959

4-button
TRANS PROX™
Model # ACT-34DHC
Part #ACP00960

Custom Block Coded

TRANS PROX™

- Works with AM-DPR and most 125 kHz proximity formats and card readers
- Compatible with MegaCode™ receivers
- Custom facility and ID codes for transmitter and proximity tag
- 26-Bit Wiegand format
- Ideal for multi-tenant, residential, and commercial building applications
- Add radio capability for any access controller that can accept wiegand input (use WOR)

Linear Formatted TRANS PROX™ Factory Block Coded



Single-button
TRANS PROX™
Model # ACT-31D
Part #ACP00954

4-button
TRANS PROX™
Model # ACT-34D
Part #ACP00955

Factory Block Coded

TRANS PROX™

- Compatible with all Linear MegaCode™ receivers, controllers, and the AM-DPR Reader
- Same facility and ID codes for transmitter and proximity tag
- 26-Bit Wiegand format
- Ideal for multi-tenant, residential, and commercial building applications
- Add radio capability for any access controller that can accept wiegand input (use WOR)

MegaCode™ Transmitter Family

Ideal for door and gate access systems and garage door operators

Transmitters General Features

- Compatible with all Linear MegaCode™ receivers and controllers
- Block-coded to one of 15 facility codes
- Quick and easy to enroll
- Available in single-channel and 4-channel packages
- Supplied with quick-disconnect key ring
- Long-lasting lithium batteries
- Ruggedly built for everyday use

**Single-button
MegaCode™
transmitter
Model # ACT-31B
Part #ACP00872**



**4-button
MegaCode™
transmitter
Model # ACT-34B
Part #ACP00879**

Factory Block-Coded Transmitters

- Compatible with all Linear MegaCode™ receivers and controllers
- Factory block-coded facility and ID codes
- Suitable for everyday installations
- Ideal for single-family, multi-tenant, and commercial applications

**Single-button
MegaCode™
transmitter
Model # ACT-31C
Part #ACP00939**



**4-button
MegaCode™
transmitter
Model # ACT-34C
Part #ACP00940**

Custom Block-Coded Transmitters

- Compatible with all Linear MegaCode™ receivers and controllers
- User-selected facility and ID codes
- Suitable for expanding existing installations
- Ideal for single-family, multi-tenant, and commercial applications

General Specifications for Transmitters and TRANS PROX™

| | |
|-------------------------------------|---|
| Dimensions: | 1.25" W x 2.25" H x 0.5" D (38.1 mm x 57.15 mm x 12.7 mm) |
| Power: | Two 3V 2016-style batteries |
| Transmitter Frequency: | 318 MHz |
| Transmitter Format: | MegaCode™ |
| Number of Transmitter Codes: | 1,000,000 plus ID codes, (15 facility codes) |
| Proximity Format: | 125 KHz non-proprietary proximity, 26 bit wiegand (TRANS PROX only) |
| Accessories: | Quick-disconnect key ring |

Descriptions of ACT Family of Credentials

| TRANS PROX- Integrated Transmitter and 26 bit Wiegand (Interoperable with certain HID 125kHz proximity formats and card readers) | | | |
|--|--------------------|--|--|
| Model Number | Part Number | Description | Ordering Logistics |
| ACT-31DH | ACP00957 | TRANS PROX key-ring fob: Single-button FACTORY Block Coded | Sold in lots of 10 |
| ACT-34DH | ACP00958 | TRANS PROX key-ring fob: Four-button FACTORY Block Coded | Sold in lots of 10 |
| ACT-31DHC | ACP00959 | TRANS PROX key-ring fob: Single-button CUSTOM Block Coded | Built to customer required facility and ID codes |
| ACT-34DHC | ACP00960 | HID compatible TRANS PROX key-ring fob: Four-button CUSTOM Block Coded | Built to customer required facility and ID Codes |

| Linear Format TRANS PROX- Integrated Transmitter and 26 bit Wiegand | | | |
|--|--------------------|--|---------------------------|
| Model Number | Part Number | Description | Ordering Logistics |
| ACT-31D | ACP00954 | TRANS PROX key-ring fob: Single-button FACTORY Block Coded | Sold in lots of 10 |
| ACT-34D | ACP00955 | TRANS PROX key-ring fob: Four-button FACTORY Block Coded | Sold in lots of 10 |

| Linear Format Transmitter | | | |
|----------------------------------|--------------------|--|--|
| Model Number | Part Number | Description | Ordering Logistics |
| ACT-31B | ACP00879 | Transmitter: Single-button FACTORY Block Coded | Sold in lots of 10 |
| ACT-34B | ACP00872 | Transmitter: Four-button FACTORY Block Coded | Sold in lots of 10 |
| ACT-31C | ACP00939 | Transmitter: Single-button Custom Block Coded | Built to customer required facility and ID codes |
| ACT-34C | ACP00940 | Transmitter: Four-button Custom Block Coded | Built to customer required facility and ID Codes |

Wiegand Output Receiver Adds RF Capability for Access Control Panels



+ WOR



+

Access Control Panels

eMerge (shown)
use with WOR

Max-3
use with WOR

Min Max-3
use with WOR



**OR 3rd Party
Access Control
Panels**

Products Compatible with Transmitters and TRANS PROX™

26 bit wiegand compatible proximity readers and TRANS PROX™ compatible products are in bold

Commercial Telephone Entry Systems

AE2000Plus (shown)
AE1000Plus

AE-500
(Transmitter only)



Residential Telephone Entry Systems

RE-2SS (shown)
RE-2N
RE-1N
RE-1SS



Wiegand Proximity Reader

AM-DPR
(TRANS PROX™ only)

Works with most HID and non-proprietary 125 kHz proximity credentials*



Garage Door Operators

LSO50 (shown)
LDO50
LDO33
LCO75
LDCO800



Access Controllers

AM3Plus (shown)
use jwith AM-RRR
AP-5
AKR-1



APeX Controller Equipped Gate Operators

HSLG (shown)
SWD/SWC/SWR/SWG
SLD/SLC/SLR
SWG
BGU/BGU-D
BGUS/BGUS-D
SG/SG-D
VS-GSLG/GSWG/GSLG
GSLG-A
LRA/LRA2

Access Control Peripherals

AM-RRR (shown)
AM-RPR



Gate Receivers

MGR (shown)
MGR-2
MDR-1
MDR-2
MDRG
SMDRG
MDR/U



*Before selecting and installing 3rd party readers, Linear recommends evaluating it for acceptable performance.

Linear ACCESS[®]

Access Control Keypads

**A wide range of choices for building
single entry point systems.**



New Models!

New Features!

With so many keypads, Linear makes it easy to build single entry point systems.



Linear's digital keyless entry systems are designed for single entry point access control applications. These keypads are typically used to activate automatic gates, electric door strikes, magnetic door locks, and solenoid locks. Access is granted to authorized personnel by entering an assigned code on the keypad.

Each keypad features courtesy lighting that illuminates the keypad during use (not available on the AK-31). The lighting is provided by long-life solid state white LEDs (except on the AK-11 and the AKR-1, which have incandescent lighting with an automotive grade bulb). The duration of the courtesy lighting is programmable.

STANDARD FEATURES

- All programming is done at the keypad, no separate programmer is required
- Up to 480 programmable keypad entry codes
- Entry codes can be one to six digits long
- Four independent outputs (two relay and two solid-state)
- Output actions (timed or latch-on/latch-off toggle) programmable for each entry code independently
- Two status indicators to signal access, lockout, and aid in programming; one indicator is dual-color
- Tactile audible feedback ensures complete key presses
- Internal sounder has two selectable volume levels



EXTENDED FEATURES

Each keypad model contains several extended features to customize the installation, and to provide detection of abnormal conditions for triggering security systems or activating other auxiliary devices.

The SENSE input: If programmed for "door sense," wiring the input to a door switch detects forced entry or door ajar conditions. If programmed for "inhibit", the input can be wired to service switch or timer to disable the main relay.

The FORCED ENTRY output: Activates if the door sense input detects that the door or gate was forced opened without authorized access being granted.

The DOOR AJAR output: Activates if the door or gate remains open for longer than 60 seconds after access is granted.

The KEYPAD LOCKOUT output: Activates when the keypad is "locked out" after too many incorrect entry code attempts.

The KEYPAD ACTIVE output: Activates when any keypad keys are pressed.

The ALARM SHUNT output: Allows shunting door or gate alarm contacts during authorized access.

The REQUEST-TO-EXIT input: Can be wired to an exit station pushbutton for codeless activation of the main relay, auxiliary relay, or either solid state output.

Other programmable features include: timed anti-passback to disable an entry code for a programmed time after use; auto-relock releases the main relay as soon as the door shuts; internal beeper can activate selectively for keystrokes and activation of each output.

The EEPROM memory retains all entry codes, programming, and all output toggle states (except on AK-2 & AKR-1) after power outages.

SPECIFICATIONS

MECHANICAL

| | |
|----------------------|--|
| AK-11: | 4.00" W x 5.50" H x 3.00" D (101.6 W x 139.7 H x 76.2 D mm) |
| AK-2, AK-21W, AK-31: | 3.00" W x 5.00" H x 3.00" D (76.2 W x 127 H x 76.2 D mm) |
| AKR-1 | 4.00" W x 7.00" H x 3.00" D (101.6 W x 177.8 H x 76.2 D mm) |

ELECTRICAL

| | |
|----------------------|---|
| Voltage: | 12-24 Volts AC or DC (AC Supply must be isolated from access device) |
| Current: | |
| AK-11, AKR-1 | 10 mA typical, 150 mA maximum |
| AK-2, AK-21W, AK-31 | 30 mA typical, 150 mA maximum |
| Outputs: | |
| Main Relay: | Form "C" 5 Amps @ 28 Volts maximum |
| Auxiliary Relay: | Form "C" 1 Amp @ 28 Volts maximum |
| Solid State Outputs: | Short-to-common 100 mA @ 24 VDC maximum |

ENVIRONMENTAL

| | |
|--------------|----------------------------------|
| Temperature: | -22°F to +149°F (-30°C to +65°C) |
| Humidity: | 5% to 95% non-condensing |

AK-11



Exterior Surface Mount Keypad

- Rugged, cast aluminum enclosure
- Neoprene gasket seals out moisture
- For outdoor or indoor mounting on a wall or pedestal
- Key lock secures the keypad to mounting backplate
- Courtesy light illuminates the keypad when a key is pressed

AK-2



Interior Flush Mount Keypad With Interchangeable Bezels

- Attractive styling with interchangeable bezels: architectural bronze, white, almond, and satin chrome
- Brilliant white LED courtesy lights illuminate keys
- Rugged metal keys made to last
- Easy mounting in a single gang J-box
- Tamper-proof hex screws secure keypad to mounting backplate

AK-21W



Shown wet for effect

Exterior Flush Mount Keypad

- Weather-resistant design
- Clear plastic boot covers internal electronics
- Neoprene gasket seals out moisture
- Brilliant white LED courtesy lights illuminate keys
- Die-cast metal housing and keys
- Easy mounting in a single gang J-box
- Tamper-proof hex screws secure keypad to mounting backplate

AK-31



Interior Low Profile Flush Mount Keypad

- Lower cost interior keypad.
- Low profile design blends into wall
- Die-cast metal keys.
- Easy mounting in a single gang J-box

AKR-1



Exterior Surface Mount Keypad with Built-in MegaCode® Radio Receiver

- Built-in 318 MHz radio receiver for wireless transmitters
- Rugged, cast aluminum enclosure
- Neoprene gasket seals out moisture
- For outdoor or indoor mounting on a wall or pedestal
- Key lock secures the keypad to mounting backplate
- Courtesy light illuminates the keypad when a key is pressed
- Compatible with Linear's MGT gate safety edge transmitter

With keypads, transmitters, and controllers, Linear makes it easy to build wireless entry system packages.



- Ideal for apartments, office buildings, commercial parking, gated communities, and industrial sites
- Secure alternative to traditional keypads (no hard wiring for intruders or vandals to short out)

Create wireless entry system packages using Linear's AP-5 Multi-purpose Wireless Access Controller with one or more MDKP Wireless Keypads and portable MegaCode transmitters.

The MDKP transmits a unique MegaCode signal for each 1-6 digit entry code entered at the keypad. The built-in radio transmitter sends a signal to the AP-5 controller to request access. The MDKP can be illuminated with the built-in courtesy light for use at night or in dark areas. The surface mount keypad can be wall or a pedestal mounted.

The AP-5 is designed for a broad range of access control applications. Its wireless design and small size make it easily adaptable for a variety of access control requirements. Typically, the AP-5 is used to control one or two door strikes, barrier gates, automatic gates, or door operators.

The AP-5 contains a high-gain superheterodyne UHF receiver which uses an external antenna to pick up signals from up to 500 feet away. Up to 480 Linear MegaCode transmitters or 238 MDKP keypad entry codes, and six Model MGT gate safety edge transmitters can be programmed into the AP-5's memory.

MDKP FEATURES

- 1-6 digit keypad entry codes
- Long-life lithium battery
- Rugged cast aluminum housing
- Built-in courtesy light

AP-5 FEATURES

- Easy to program and use
- Easy to add or suspend transmitters and entry codes
- Compatible with up to six MGT gate safety edge transmitters

From activation to operation, the solution to your entry requirements is all available from Linear

Since 1961, Linear's name has been synonymous with wireless remote controls and entry devices for activating all manner of access equipment.

With each passing decade, we've added more product lines and more capabilities. Access control, from telephone entry to stand-alone keypads. Garage door operators, belt and chain models, in a variety of horsepower choices, all in installer-friendly designs. Gate operators, for swing, slide, and barrier gates in a complete range of residential, commercial, and industrial applications. Commercial door operators jackshaft and drawbar, for roll-up and high-lift doors. Add in a field network known for dedicated customer support and your best entry systems resource is all available from Linear.



Linear®

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(760) 438-7000 (800) 421-1587 Fax (800) 468-1340
www.linearcorp.com

Linear | Access Control Products



Order Information

Sales Department

5:00 AM — 4:30 PM (Pacific Time) Monday – Friday

8:00 AM — 7:30 PM (Eastern Time) Monday – Friday

Phone 1.800.421.1587

Fax 1.800.468.1340

Web www.linearcorp.com

E-mail sales@linearcorp.com

Technical Support for Dealers & Installers

5:00 AM — 4:30 PM (Pacific Time) Monday – Friday

8:00 AM — 7:30 PM (Eastern Time) Monday – Friday

Phone 1.800.421.1587

Fax 1.760.438.7199

Web www.linearcorp.com

E-mail techsupport@linearcorp.com

These Linear products are available nationwide at hundreds of conveniently located local distributors branches. The innovative products are available where you need them and when you need them, making Linear the natural choice for your entry system solutions.

Linear products are distributed by:



All these brands are now under one name.



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Access Control Products

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The ideal access control system balances the competing demands for security and convenience. It fulfills a wide range of functional requirements with minimum system complexity. It integrates high performance, reliability, and flexibility in equal measure. It is technically advanced yet functionally simple. It is backed by the design, engineering, and production resources of an acknowledged security and control technology leader. All of which accurately defines every access control solution that Linear delivers.



Traditional access control with the added dimension of radio: Our product line represents a completely modular approach. Your entry options are virtually unlimited. Telephone entry systems, keypads, and proximity devices can be integrated into a single network or furnished as individual sub-systems. Then, there's our specialty, radio technology, which can form the basis of an entire system or can be used to equip an existing site with remote keyless entry and panic button functions.

Systems from one to 32 entry points: Whether you need access control for a small office building, a multi-gated residential community, or a sprawling university campus, we have a system that can be precisely tailored by capacity and capability.

Locally programmable or computer-linked systems: We can provide a stand-alone system with its own software or access control that ties into other computer controlled systems. RS232 outputs allow Linear systems to be linked by computer for event/transaction logging or to other access control systems for remote radio capability.

Remote devices and add-on features: Knox boxes, postal keys, request-to-exit devices, and many other devices can all be planned into the initial system or installed on a retrofit basis. You'll find all the access control products you need on the pages that follow.

For technical support or for assistance in designing a system using Linear Access products, call us at (800) 421-1587.



ACCESS CONTROL FUNCTIONS

Stand Alone Systems

- Offices
- Warehouses
- Medical Clinics
- Office buildings with multiple entrances
- Small hospitals, several buildings with parking

Stand Alone Systems with Radio

- Gated communities
- Condominiums with adjacent underground parking, gates, and doors
- Buildings and offices in high crime areas

ACCESS CONTROL AND DURESS FUNCTIONS

Stand Alone Systems with Radio

- Door control and panic in small hospitals, especially with psychiatric wards
- Parking lot panic systems with gate/door control for building garages

Add-On Systems with Radio

- Business campuses
- College or private school campuses
- Medical access systems
- Courthouses
- Corporate human resource areas
- Government buildings

AE2000Plus

Commercial Telephone Entry System with Access Control
Four Gates/Doors, Large Screen



Product No. ACP00952



This advanced commercial telephone entry system has access control capabilities and is for sites with up to four doors and/or gates, each supporting request-to-exit and door status monitoring. The AE2000Plus has a 10,000-user capacity and a unique directory code for each user.

APPLICATIONS

Gated communities, parking garages, office buildings, apartments, dormitories, hotels/motels, commercial buildings and recreational facilities.

FEATURES

- Rugged stainless steel enclosure with articulated, double-locking front panel
- Temperature compensated, back-lit VGA resolution LCD display and back-lit keys
- Built-in microphone and speaker
- Built-in 318 MHz RF receiver
- Many installation choices: surface, recessed, gooseneck
- Local or remote programming using a PC and AccessBase2000 or through browser with built-in AXNET software
- 32 security levels, 32 time zones, 32 door schedules, and 24 holiday schedules
- Relay auto lock/unlock schedules
- Dimensions: 15.25" W x 19" H x 4" D

COMPATIBLE TRANSMITTERS

- MDT-1B 1-Channel Block Coded Visor
- MDT-2B 3-Channel Block Coded Visor
- MDT-4B 5-Channel Block Coded Visor
- MT-1B 1-Channel Block Coded Visor
- MT-2B 2-Channel Block Coded Visor
- ACT-31B 1-Channel Block Coded Key Ring
- ACT-34B 4-Channel Block Coded Key Ring
- ACT-21B 1-Channel Block Coded Key Ring
- ACT-31C 1-Channel Custom Block Coded Key Ring
- ACT-34C 4-Channel Custom Block Coded Key Ring
- ACT-31D 1-Channel Block Coded Key Ring TRANS PROX Transmitter & Proximity Tag
- ACT-34D 4-Channel Block Coded Key Ring TRANS PROX Transmitter & Proximity Tag

AVAILABLE ACCESSORIES

- AM-RPR Remote Proximity Receiver
- AM-RRR Remote Radio Receiver
- AM-KP Exterior Keypad
- RGR Remote Genie Receiver
- AM-PR Proximity Reader
- AM-PC Proximity Cards
- AM-PT Proximity Tags
- CPDM-1 Video Modulator for Access Cameras
- AM-CRI Card Reader Interface
- AM-KPI Interior Keypad
- MGT Gate Safety Edge Transmitter
- CCM-1A Color Camera
- TR-2000 Trim Ring
- EXA-2000 Directional Remote Antenna
- EXA-1000 Omni-directional Remote Antenna



MDT Series



AM-PR



AM-RPR

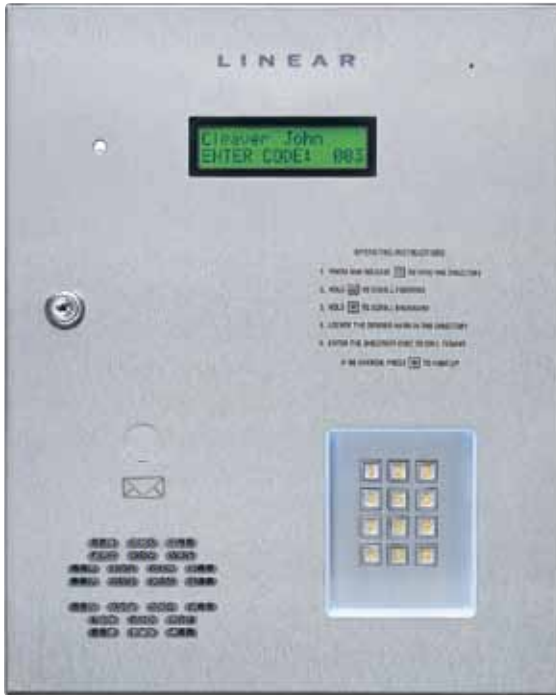


ACT-34D

| Capabilities with AccessBase2000 Programming <i>Programming through dedicated PC</i> | Capabilities with AXNET Programming <i>Programming using ANY PC through browser software</i> |
|---|---|
| Up to 10,000 cardholders grouped in sets | Up to 2,000 cardholders |
| Up to 24 card blocks with up to 1,900 cards each (45,600 total) | Up to 24 card blocks with up to 1,600 cards each (38,000 total) |
| Up to 20,000 individually enrolled cards | Up to 2,000 individually enrolled cards |
| Up to 24 transmitter blocks with up to 1,900 transmitters each (45,000 total) | Up to 24 transmitter blocks with up to 1,600 transmitters each (38,400 total) |
| Up to 20,000 individually enrolled transmitters | Up to 2,000 individually enrolled transmitters |
| Up to 20,000 entry codes for cardholders | Up to 2,000 key codes |
| Up to 20,000 telephone directory codes for cardholders | Up to 2,000 telephone directory codes |
| 20,000 event log entries per unit | 2,500 event log entries per unit |
| Up to 31 access time zones | Up to eight access time zones |
| Up to six PBUS and two Wiegand devices per unit | Up to four PBUS and two Wiegand devices per unit |

AE1000Plus

Commercial Telephone Entry System with Access Control
Four Gates/Doors



Product No. ACP00951



This advanced commercial telephone entry system has access control capabilities and is for sites with up to four doors and/or gates, each supporting request-to-exit and door status monitoring. The AE1000Plus has a 10,000-user capacity and a unique directory code for each user.

APPLICATIONS

Gated communities, parking garages, office buildings, apartments, dormitories, hotels/motels, commercial buildings and recreational facilities.

FEATURES

- Rugged stainless steel enclosure
- Backlit two-line directory display with programmable display messages; sidelit 12-key telephone style keypad
- Built-in microphone and speaker
- Built-in 318 MHz RF receiver
- Many installation choices: surface, recessed, gooseneck
- Local or remote programming using a PC and AccessBase2000 or through browser with built-in AXNET software
- 32 security levels, 32 time zones, 32 door schedules, and 24 holiday schedules
- Relay auto lock/unlock schedules
- Dimensions: 13" W x 16.25" H x 3.5" D

COMPATIBLE TRANSMITTERS

- MDT-1B 1-Channel Block Coded Visor
- MDT-2B 3-Channel Block Coded Visor
- MDT-4B 5-Channel Block Coded Visor
- MT-1B 1-Channel Block Coded Visor
- MT-2B 2-Channel Block Coded Visor
- ACT-31B 1-Channel Block Coded Key Ring
- ACT-34B 4-Channel Block Coded Key Ring
- ACT-21B 1-Channel Block Coded Key Ring
- ACT-31C 1-Channel Custom Block Coded Key Ring
- ACT-34C 4-Channel Custom Block Coded Key Ring
- ACT-31D 1-Channel Block Coded Key Ring TRANS PROX Transmitter & Proximity Tag
- ACT-34D 4-Channel Block Coded Key Ring TRANS PROX Transmitter & Proximity Tag

AVAILABLE ACCESSORIES

- AM-RPR Remote Proximity Receiver
- AM-RRR Remote Radio Receiver
- AM-KP Exterior Keypad
- RGR Remote Genie Receiver
- AM-PR Proximity Reader
- AM-PC Proximity Cards
- AM-PT Proximity Tags
- CPDM-1 Video Modulator for Access Cameras
- AM-CRI Card Reader Interface
- AM-KPI Interior Keypad
- MGT Gate Safety Edge Transmitter
- CCM-1A Color Camera
- TR-1000 Trim Ring
- EXA-2000 Directional Remote Antenna
- EXA-1000 Omni-directional Remote Antenna



MDT Series



AM-PR



AM-RPR



ACT-34D

| Capabilities with AccessBase2000 Programming <i>Programming through dedicated PC</i> | Capabilities with AXNET Programming <i>Programming using ANY PC through browser software</i> |
|--|--|
| Up to 10,000 cardholders grouped in sets | Up to 2,000 cardholders |
| Up to 24 card blocks with up to 1,900 cards each (45,600 total) | Up to 24 card blocks with up to 1,600 cards each (38,000 total) |
| Up to 20,000 individually enrolled cards | Up to 2,000 individually enrolled cards |
| Up to 24 transmitter blocks with up to 1,900 transmitters each (45,000 total) | Up to 24 transmitter blocks with up to 1,600 transmitters each (38,400 total) |
| Up to 20,000 individually enrolled transmitters | Up to 2,000 individually enrolled transmitters |
| Up to 20,000 entry codes for cardholders | Up to 2,000 key codes |
| Up to 20,000 telephone directory codes for cardholders | Up to 2,000 telephone directory codes |
| 20,000 event log entries per unit | 2,500 event log entries per unit |
| Up to 31 access time zones | Up to eight access time zones |
| Up to six PBUS and two Wiegand devices per unit | Up to four PBUS and two Wiegand devices per unit |

AM3Plus

4-Portal Access Controller



Product No. ACP00950



An access controller for up to four points of entry, the AM3Plus is housed in a lockable, plastic enclosure that is monitored with a magnetic tamper switch. The AM3Plus features a 2-digit LED display, nine status indicators, four relay indicators with four relay activation pushbuttons, three programming buttons, a reset button, and a power indicator. The system controls its four output relays by responding to various input devices that react to proximity cards, transmitters, and entry codes. These output channels can be programmed to control electric door strikes, magnetic locks, door and gate operators, or barrier gates.

APPLICATIONS

Gated communities, parking garages, office buildings, apartments, dormitories, hotels/motels, commercial buildings and recreational facilities.

FEATURES

- Full control of 4 doors; each supporting request to exit and door status monitoring
- 2 Wiegand inputs for readers
- Add AM-CRI's for more Wiegand inputs
- Local or remote programming using a PC and AccessBase2000 or through browser with built-in AXNET software
- Remote programming using optional ACM-1 modem (ACP00905)
- Relay auto lock/unlock schedules
- Dimensions: 11.5" W x 12.5" H x 4" D

COMPATIBLE MODELS

- AE1000Plus Commercial Telephone Entry System with Access Control
- AE2000Plus Commercial Telephone Entry System with Access Control



ACM-1
Replacement Modem
Product No. ACP00905

COMPATIBLE TRANSMITTERS WITH AM-RRR

- MDT-1B 1-Channel Block Coded Visor
- MDT-2B 3-Channel Block Coded Visor
- MDT-4B 5-Channel Block Coded Visor
- MT-1B 1-Channel Block Coded Visor
- MT-2B 2-Channel Block Coded Visor
- ACT-31B 1-Channel Block Coded Key Ring
- ACT-34B 4-Channel Block Coded Key Ring
- ACT-21B 1-Channel Block Coded Key Ring
- ACT-31C 1-Channel Custom Block Coded Key Ring
- ACT-34C 4-Channel Custom Block Coded Key Ring
- ACT-31D 1-Channel Block Coded Key Ring TRANS PROX Transmitter & Proximity Tag
- ACT-34D 4-Channel Block Coded Key Ring TRANS PROX Transmitter & Proximity Tag

AVAILABLE ACCESSORIES

- AM-RPR Remote Proximity Receiver
- AM-RRR Remote Radio Receiver
- AM-KP Exterior Keypad
- RGR Remote Genie Receiver
- AM-PR Proximity Reader
- AM-PC Proximity Cards
- AM-PT Proximity Tags
- AM-CRI Card Reader Interface
- AM-KPI Interior Keypad
- MGT Gate Safety Edge Transmitter
- ACM-1 Replacement Modem (Field Option)
- AM-RRR Remote Radio Receiver

| Capabilities with AccessBase2000 Programming <i>Programming through dedicated PC</i> | Capabilities with AXNET Programming <i>Programming using ANY PC through browser software</i> |
|---|---|
| Up to 10,000 cardholders grouped in sets | Up to 2,000 cardholders |
| Up to 24 card blocks with up to 1,900 cards each (45,600 total) | Up to 24 card blocks with up to 1,600 cards each (38,000 total) |
| Up to 20,000 individually enrolled cards | Up to 2,000 individually enrolled cards |
| Up to 24 transmitter blocks with up to 1,900 transmitters each (45,000 total) † | Up to 24 transmitter blocks with up to 1,600 transmitters each (38,400 total) † |
| Up to 20,000 individually enrolled transmitters † | Up to 2,000 individually enrolled transmitters † |
| Up to 20,000 entry codes for cardholders | Up to 2,000 key codes |
| Up to 20,000 telephone directory codes for cardholders | Up to 2,000 telephone directory codes |
| 20,000 event log entries per unit | 2,500 event log entries per unit |
| Up to 31 access time zones | Up to eight access time zones |
| Up to six PBUS and two Wiegand devices per unit | Up to four PBUS and two Wiegand devices per unit |

† (AM-RRR remote receiver required)

AE-500

Commercial Telephone Entry System
Two Gates/Doors



Product No. ACP00899

The AE-500 is for facilities with up to 250 residents or users. Housed in a locked, rugged stainless steel faced enclosure, it features a side-lit 12-key telephone style keypad with bright, easy-to-read graphics, a backlit two-line directory display with a programmable welcome message, a built-in microphone, and speaker.

APPLICATIONS

Gated communities, parking garages, office buildings, apartments, dormitories, hotels/motels, commercial buildings, and recreational facilities

FEATURES

- Economically priced
- Up to 250 user capacity
- Up to 500 block coded transmitter capacity
- Built-in 318 MHz RF receiver
- Many installation choices: surface, recessed, gooseneck
- Built-in modem for remote programming
- Multiple programming methods: from keypad, from touchtone telephone, from web browser
- Two configurable output relays
- Dimensions: 10.75" W x 12.75" H x 3.5" D

AVAILABLE ACCESSORIES

- AM-KP Exterior Keypad
- AM-KPI Interior Keypad
- MGT Gate Safety Edge Transmitter
- EXA-2000 Directional Remote Antenna
- EXA-1000 Omni-directional Remote Antenna
- CCM-1A Color Camera

COMPATIBLE TRANSMITTERS

- MDT-1B 1-Channel Block Coded Visor
- MDT-2B 3-Channel Block Coded Visor
- MDT-4B 5-Channel Block Coded Visor
- MT-1B 1-Channel Block Coded Visor
- MT-2B 2-Channel Block Coded Visor
- ACT-31B 1-Channel Block Coded Key Ring
- ACT-34B 4-Channel Block Coded Key Ring
- ACT-21B 1-Channel Block Coded Key Ring
- ACT-22B 3-Channel Block Coded Key Ring
- ACT-31C 1-Channel Custom Block Coded Key Ring
- ACT-34C 4-Channel Custom Block Coded Key Ring



EXA-2000



AM-KP

AE-100

Commercial Telephone Entry System One Gate/Door



Product No. ACP00937



CCM-1A

This system is intended as a primary access control device for commercial sites with up to 125 residents. It can be used indoors or out. The AE-100 utilizes hands-free, full duplex telephone communications between visitors and residents for granting access. The backlit two-line directory LCD display scrolls a programmable welcome message and shows the directory Names and Directory Codes. The system contains a built-in microphone and a tamper resistant speaker. The heavy-duty access relay can control electric door strikes, magnetic locks, door and gate operators, or barrier gates. Multi-lingual display programming prompts and voice help is available with a choice of English, Spanish, French-Canadian, or Portuguese language selection for the system. The system can be programmed locally using the keypad, or remotely with a touch-tone telephone. Optional features that the AE-100 supports are provisions for postal lock and color CCTV camera installation (Model CCM-1A). The AE-100 is powered from a 16 VAC plug-in transformer.

APPLICATIONS

Small apartment buildings, condominiums, or gated communities

FEATURES

- Many installation choices: surface, recessed, gooseneck
- Stainless steel front panel
- Telephone style keypad with lighting
- Accepts a total of 125 directory listings or stand-alone entry codes
- TTY jack for connection to text communication devices for the hearing impaired
- Simple network capability with up to four units —allows transferring programming data from “master” unit to other sub-units.
- Two-line-16-character LCD display
- Removable terminal blocks
- Form “C” access relay rated at 10 amps AC and 7 amps DC @ 30 volts
- Load shed circuitry protects backup battery
- 9.75” W x 11.75” H x 3.5” D

AVAILABLE ACCESSORIES

- CCM-1A Color Camera
- 12VGB 12-volt 1.2 Amp/hour Rechargeable Gel-cell Battery
- TR-100 Trim Ring

RE-1

Residential Telephone Entry System



RE-1N Product No. ACP00892
RE-1SS Product No. ACP00896 (Not Shown)

The stylish RE-1 is designed for residential or light commercial access control. The speakerphone, keypad, radio receiver, and optional video camera are housed in a rugged enclosure that can be mounted to a pedestal or bolted directly to a wall. The die-cast keypad keys have bright, easy-to-read graphics and are lit with an overhead light. The two operation buttons; CALL and HELP, are machined for heavy-duty reliability

APPLICATIONS

Single residences, commercial sites, employee parking

FEATURES

- Cast housing stainless steel finish (RE-1SS) or nickel finish (RE-1N)
- Downlighting
- User friendly voice prompts
- Two programmable outputs control two openings
- Obstacle reverse, alarm shunt
- Provisions for Knox Box
- Simple to program and maintain through on board keypad, touchtone telephone, or computer with modem
- 450 event memory log
- Supports 100 entry codes; 100 block-coded transmitters
- Built-in 318 MHz superheterodyne radio receiver
- Backup battery ready
- Dimensions: 6.45" W x 10.81" H x 3.74" D

AVAILABLE ACCESSORIES

- AM-KP Exterior Keypad
- GNB-1 Burial Mount Gooseneck
- GNC-1 Curb Mount Gooseneck
- RE-BWC1 Black & White Camera for RE-1

COMPATIBLE TRANSMITTERS

- MDT-1B 1-Channel Block Coded Visor
- MDT-2B 3-Channel Block Coded Visor
- MDT-4B 5-Channel Block Coded Visor
- MT-1B 1-Channel Block Coded Visor
- MT-2B 2-Channel Block Coded Visor
- ACT-31B 1-Channel Block Coded Key Ring
- ACT-34B 4-Channel Block Coded Key Ring
- ACT-21B 1-Channel Block Coded Key Ring
- ACT-31C 1-Channel Custom Block Coded Key Ring
- ACT-34C 4-Channel Custom Block Coded Key Ring



GNC-1



AM-KP

RE-2

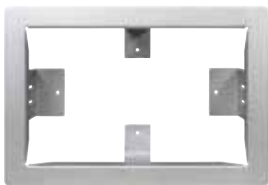
Residential Telephone Entry System



RE-2N Product No. ACP00910



RE-2SS Product No. ACP00919



TR-RE2SS



CCM-2A

The contemporary styled RE-2 is for residential or light commercial access control. The speakerphone, keypad, radio receiver, and optional video camera are housed in a rugged enclosure that can be mounted to a pedestal, or bolted directly to a wall, or flush mounted in a column. The die-cast keypad keys have bright, easy-to-read graphics, and are lit with an overhead light. The two operation buttons; CALL and HELP, are machined for heavy-duty reliability.

APPLICATIONS

Single residences, commercial sites, employee parking

FEATURES

- Powder coated nickel or stainless steel finish
- Downlighting
- User friendly voice prompts
- Two programmable outputs control two openings
- Obstacle reverse, alarm shunt
- Provisions for Knox Box
- Simple to program and maintain through on board keypad, touchtone telephone, or computer with modem
- 450 event memory log
- Supports 100 entry codes; 100 block-coded transmitters
- Built-in 318 MHz superheterodyne radio receiver
- Backup battery ready
- Dimensions: 10.0" W x 6.25" H x 4" D

AVAILABLE ACCESSORIES

- AM-KP Exterior Keypad
- CPDM-1 Video Modulator for Access Cameras
- TR-RE2N RE-2N Trim Ring
- TR-RE2SS RE-2SS Trim Ring
- CCM-2A Color Camera
- EXA-2000 Directional Remote Antenna

COMPATIBLE TRANSMITTERS

- MDT-1B 1-Channel Block Coded Visor
- MDT-2B 3-Channel Block Coded Visor
- MDT-4B 5-Channel Block Coded Visor
- MT-1B 1-Channel Block Coded Visor
- MT-2B 2-Channel Block Coded Visor
- ACT-31B 1-Channel Block Coded Key Ring
- ACT-34B 4-Channel Block Coded Key Ring
- ACT-21B 1-Channel Block Coded Key Ring
- ACT-31C 1-Channel Custom Block Coded Key Ring
- ACT-34C 4-Channel Custom Block Coded Key Ring

AK-11, AKR-1, AK-21W, MDKP

Exterior Digital Keypads

Applications:

Airports, hospitals, warehouses, office buildings, parking lots, and many other commercial facilities



Product No. ACP00748



Product No. ACP00747

AK-11 Exterior Digital Keypad

The AK-11 is a digital keyless entry system housed in a rugged cast aluminum enclosure that can be mounted to a pedestal or bolted directly to a wall. Up to 480 entry codes, from 1 to 6 digits in length, can be programmed. They can activate either, or both, of the relay outputs.

AKR-1 Exterior Digital Keypad with Radio Receiver

The AKR-1 features an integral radio receiver for versatile access control functions. This exterior digital keypad is housed in a rugged cast aluminum enclosure that can be mounted to a pedestal or bolted directly to a wall. Linear's Model MGT safety edge transmitter is compatible with the AKR-1 and can be used to detect and transmit obstacle events to the receiver and activate Relay #2.



Product No. ACP00750



Product No. ACP00878

AK-21W Weather-Resistant Digital Keypad

The AK-21W is weather resistant and is housed in a rugged, plastic enclosure and for mounting in a standard single-gang electrical box. It is supplied with four different plastic snap-on mounting bezels to customize the look of the keypad. The satin-chrome bezel comes factory installed on the keypad. The white, ivory and bronze bezels are packaged separately.

MDKP Exterior Wireless Keypad

The MDKP can transmit a unique signal for each 1-6 digit PIN entered. It has a built-in radio transmitter with a 250-foot range in line-of-sight conditions. Codes are learned by either the access controller or receiver, the maximum number dependent upon the model used. To operate the MDKP, a user simply enters a PIN followed by the # key, and the code is transmitted to the receiver for validation. Downlighting can be turned on by pressing the # key twice; it remains on for 30 seconds or until a code is sent. Installation and set-up are simple. The MDKP can be mounted on either a wall or a gooseneck. It is ready to use upon plugging in its 9V lithium battery and programming of user codes.

AK-21, AK-31

Interior Digital Keypads

Applications:

Airports, hospitals, warehouses, office buildings, parking lots, and many other commercial facilities



Product No. ACP00749

AK-21 Interior Digital Keypad

The AK-21 is housed in a rugged, plastic enclosure for mounting in a standard single-gang electrical box. It is supplied with four different plastic snap-on mounting bezels to customize the look of the keypad. The satin-chrome bezel comes factory installed on the keypad. The white, ivory, and bronze bezels are packaged separately. All system indicators and lights are long-lasting, solid-state LEDs. An internal sounder beeps when each key is pressed.



Product No. ACP00751

AK-31 Low-Cost Interior Digital Keypad

The AK-31 is a low-cost interior digital keypad housed in a rugged, plastic enclosure for mounting in a standard single-gang electrical box. Two indicators show system status. The left lights red to indicate power, then turns green when access is granted. The right lights yellow when the keypad is in lockout condition (from too many incorrect code entries). An internal sounder beeps when each key is pressed.

AP-5

Wireless Access Controller
Two Gates or Doors



Product No. ACP00953



ACT-34B

MGT

The AP-5 is a compact, wireless controller ideal for multiple access control requirements. It has three programmable relays - one is an access output, one is an obstacle output, and the third can be configured as either an access or obstacle output. Access relay activation timing is programmable from 1-120 seconds. The AP-5 features a built-in, high gain, superheterodyne receiver, which uses an external antenna to pick up signals from up to 250 feet away. It supports up to 480 Linear MegaCode® transmitters and up to six Model MGT safety edge transmitters can be assigned to the obstacle relay. The AP-5 can be powered from 12-24 Volts AC or DC. The Form C relay outputs can switch up to 1 Amp each. An EARTH GROUND terminal is provided as an optional connection for maximum lightning and static protection.

APPLICATIONS

Gated communities, parking facilities, and industrial sites

FEATURES

- Easy to set-up and use, up to 480 remotes can be programmed with a few keystrokes
- Easy to add, suspend, and delete transmitters through programming mode, no transmitter dipswitches to set
- Supports 480 block coded transmitters or 238 individual transmitters/wireless keypad entry codes
- Supports up to six fully supervised safety edge transmitters
- AP-5 replaces Linear's AP-4; AP-5 available for replacement of existing AP-4 units only
- RF frequency: 318 MHz
- Dimensions: 4.45" W x 5.75" H x 1.5" D without antenna

AVAILABLE ACCESSORIES

- MDKP Exterior Wireless Keypad
- EXA-2000 Directional Remote Antenna
- EXA-1000 Omni-directional Remote Antenna

COMPATIBLE TRANSMITTERS

- MDT-1B 1-Channel Block Coded Visor
- MDT-2B 3-Channel Block Coded Visor
- MDT-4B 5-Channel Block Coded Visor
- MT-1B 1-Channel Block Coded Visor
- MT-2B 2-Channel Block Coded Visor
- ACT-31B 1-channel Block Coded Key Ring Transmitter
- ACT-34B 4-channel Block Coded Key Ring Transmitter
- ACT-31C 1-Channel Custom Block Coded Key Ring
- ACT-34C 4-Channel Custom Block Coded Key Ring
- MGT MegaCode Safety Edge Transmitter

WOR

Wiegand Output Receiver



Product No. ACP00727



EXA-1000



MDKP

The WOR is a Wiegand Output Receiver for use as a wireless access control interface for Linear's block coded digital transmitters. The unit receives signals from transmitters, adds a facility code to the data, and sends the information via a 5-wire connection to a Wiegand input commonly available on most access control panels. Several transmitter and receiver options can be set using the unit's dipswitches. An on-board RADIO RANGE knob allows adjustment of the receiver's gain. Two indicators display the receivers performance and operation. Receiver test points are provided for listening to the incoming signals with an audio amplifier. The WOR is housed in a weather-resistant enclosure and can be mounted indoors or outdoors. Gaskets and a weather-tight wiring strain relief seal the unit from the elements.

APPLICATIONS

Airports, hospitals, warehouses, office buildings, parking lots, and many other commercial facilities

FEATURES

- Easy way to equip existing installations with radio transmitter access
- Keyless entry offers user convenience, safety, and security for triggering gates, barrier arms, and doors
- Ideal way to facilitate handicapped access
- Multi-button transmitters can double as personal emergency devices for triggering security alarms
- RF input/Wiegand output receiver supports 26, 30, and 31-bit Wiegand data formats
- Wide selection of MegaCode (over 1 million codes) format transmitters, with available block coding
- Field adjustable read range - from 5 to 500 feet
- Connects as easily as a card reader; transmitters are added like cards, with no software changes required
- Facility and ID codes tailored to system requirements
- RF frequency: 318 MHz
- Dimensions: 4.25" W x 6.25" H x 2.5" D

AVAILABLE ACCESSORIES

- EXA-1000 Omni-directional Remote Antenna
- EXA-2000 Directional Remote Antenna

COMPATIBLE TRANSMITTERS

- MDT-1B 1-channel Block Coded Visor Transmitter
- MDT-2B 3-channel Block Coded Visor Transmitter
- MDT-4B 5-channel Block Coded Visor Transmitter
- MT-1B 1-channel Block Coded Visor Transmitter
- MT-2B 2-channel Block Coded Visor Transmitter
- ACT-21B 1-channel Block Coded Key Ring Transmitter
- ACT-22B 3-channel Block Coded Key Ring Transmitter
- ACT-31B 1-channel Block Coded Key Ring Transmitter
- ACT-34B 4-channel Block Coded Key Ring Transmitter
- ACT-31C 1-Channel Custom Block Coded Key Ring
- ACT-34C 4-Channel Custom Block Coded Key Ring
- MDKP Exterior Wireless Keypad
- ACT-31D 1-Channel Block Coded Key Ring TRANS PROX Transmitter & Proximity Tag
- ACT-34D 4-Channel Block Coded Key Ring TRANS PROX Transmitter & Proximity Tag



Product No. ACP00500

AM-RRR

Remote Radio Receiver

The AM-RRR Remote Radio Receiver is for use with Linear's access control systems. It functions as a remote device that extends the radio range or supplies localized radio reception.

FEATURES

- Provides extended range for radio-based access control system
- Up to 500 foot radius radio coverage
- Weather-resistant housing for outside or indoor mounting
- Optional directional remote or omnidirectional remote antennas
- Integral radio gain control for adjustment of radio range
- Power supplied by access controller
- Compatible with all MegaCode transmitters
- Compatible with AM3Plus, AE1000Plus, and AE2000Plus ONLY
- RF frequency: 318 MHz
- 4.25" W x 6.25" H x 2.5" D without antenna
- **See page 16 for compatible transmitters**

AM-RPR

Remote Proximity Receiver

The AM-RPR Remote Proximity Receiver is for use with Linear's access control systems. It functions as a remote device that supplies localized radio reception.



Product No. ACP00560

FEATURES

- Convenient, cost-effective, and reliable form of door or entrance control
- 2-to-3-inch radio transmitter read range prevents transmitter from being detected by wrong receiver
- 2-color status LED indicates "power on" and "access granted"
- Installs in a single-gang electrical box
- Compatible with all MegaCode transmitters
- Compatible with AM3Plus, AE1000Plus, and AE2000Plus ONLY
- 2.7" W x 4.5" H x 2" D
- **See page 16 for compatible transmitters**

AM-KP

Exterior Keypad



Product No. ACP00520

The Model AM-KP keypad is housed in a rugged cast aluminum enclosure. The die-cast keys have bright, easy-to-read yellow graphics. Each key has a positive tactile click feel when pressed. An incandescent panel lamp lights the keypad for nighttime use. Red, green and yellow indicators show power, access and lockout conditions

FEATURES

- For use outdoors or indoors
- 1-to-8-digit user selectable access codes
- Programmable downlighting
- Separate LEDs for “power/access granted” and “locked out” indication
- Gooseneck or wall mounting
- Cast aluminum, environmentally protected housing
- Keylock secures keypad to mounting backplate
- Compatible with AM3Plus, AE1000Plus, AE2000Plus, AE-500, RE-1, and RE-2 ONLY
- 4” W x 5.5” H x 3” D

AM-KPI

Interior Keypad



Product No. ACP00887

The Model AM-KPI Interior Keypad is housed in a rugged, plastic enclosure and is designed to be mounted indoors in a standard single-gang electrical box. The keypad is supplied with a satin-chrome plastic bezel installed. Three interchangeable colored plastic bezels (white, ivory, & bronze) are included with the unit to customize the keypad appearance for the installation.

FEATURES

- Programmable white LED downlighting
- Separate LEDs for “power/access granted” and “locked out” indication
- Mounts in a single gang electrical box using security screws; tool included
- Compatible with AM3Plus, AE1000Plus, AE2000Plus, and AE-500 ONLY
- 3” W x 5” H x 3” D



Product No. ACP00740

AM-PR

Proximity Reader

The AM-PR is a close-range reader that works with either proximity tags or proximity cards. The AM-PR is rugged, rated for extreme weather, and vandal resistant.

FEATURES

- Compatible with all Wiegand formats up to 40 bits
- Weather resistant and vandal resistant
- 4 to 6 inch read range
- Supports up to 65,000 cards
- Easy to install
- Integral LED confirms when user access is granted
- Compatible with AM3Plus, AE1000Plus, and AE2000Plus ONLY
- 1.6" W x 3.4" H x .6" D



Product No. ACP00739

AM-PC

Proximity Cards

The Model AM-PC Proximity Card is a Wiegand format proximity type access control card with a slot for attaching to a key ring, use with AM-PR proximity reader.

FEATURES

- Passive operation
- Low-cost
- Durable
- 25 piece bulk pack



Product No. ACP00742

AM-PT

Proximity Tags

The Model AM-PT Proximity Tag is a Wiegand format proximity type miniature access control tag with a slot for attaching to a key ring, use with AM-PR proximity reader, sold in lots of 25.

FEATURES

- Passive operation
- Small size
- Low-cost
- Durable
- 25 piece bulk pack

AM-CRI

Card Reader Interface



Product No. ACP00717

The AM-CRI is a card reader that will support one or two 26-bit, 30-bit, or 31-bit Wiegand input devices. If the readers used have a hold or buffer connection, two readers may be used to the AM-CRI. If the readers do not have a hold or buffer connection, one reader may be used with the AM-CRI. Usually mounted near the readers, the AM-CRI interface connects to the control unit through a PBUS cable. Each reader connects to the AM-CRI through a six-wire (one LED in reader) or seven-wire (two LEDs in reader) cable.

FEATURES

- For equipping a Linear access control system with one or two Wiegand devices
- Card Reader Interface can be used with up to two 26, 30, or 31-Bit Wiegand input devices
- Power is supplied by system controller or external source for locally powered readers
- 4.45" W x 5.75" H x 1.5" D

MGT

Gate Safety Edge Transmitter



Product No. DNT00068

The MGT adds fully supervised obstacle sensing for motorized gates, doors, or barrier arms in any Linear access control system or APeX Controller equipped gate operators. It mounts directly on the gate, door, or barrier and wires to a standard exterior safety edge sensor.

FEATURES

- Signals access controller for stop or reverse when safety edge activates
- No extra cables or coiled wires to controller
- Power: 2 Model 2450 lithium batteries
- Frequency: 318 MHz
- Codes: 1,000,000+ (factory precoded)
- Dimensions: 4.28" W 2.9" H x 2.2" D
- Compatible with AM3Plus, AE1000Plus, AE2000Plus, AE-500, RE-1, RE-2, AP-5, APeX Controller equipped gate operators, and MegaCode receivers

CCM-1A

Color Camera



Product No. ACP00904A

The Model CCM-1A Color Camera mounts inside Linear's commercial access controllers. The camera provides color day/night camera captures images with great detail in not only well-lit environments, but also in low-light conditions. In daytime, the CCM-1A will provide a full-color image and a black-and-white image in low light periods, such as dusk and dawn.

FEATURES

- Color CCD camera
- Bracket for mounting inside the access controller
- Plug-in connector for power and video
- Fits in Models AE-100, AE-500, AE1000Plus and AE2000Plus

CCM-2A

Color Camera



Product No. ACP00936A

The Model CCM-2A Color Camera mounts inside Linear's RE-2 telephone entry system. The camera provides color day/night camera captures images with great detail in not only well-lit environments, but also in low-light conditions. In daytime, the CCM-2A will provide a full-color image and a black-and-white image in low light periods, such as dusk and dawn.

FEATURES

- Color CCD camera
- Bracket for mounting inside the telephone entry system
- Plug-in connector for power and video
- Fits in Models RE-2N and RE-2SS

RE-BWC1

Black & White Camera



Product No. ACP00886A

The Model RE-BWC1 Black & White Camera mounts inside Linear's RE-1 residential telephone entry system and provides black and white video of the entry system visitor. Built-in infrared illuminators help to light the subject in low-light conditions.

FEATURES

- Field upgradeable
- Receives power from RE-1. No need to run additional power
- Contains infrared illuminators to allow visibility in complete darkness
- Fits in Models RE-1N and RE-1SS

CDPM-1

Video Modulator for Access Cameras



Product No. AAE00436

This digital modulator converts any baseband NTSC video and audio signal to a selected UHF or Ultraband CATV channel. A quartz crystal reference oscillator and PLL circuitry ensure drift-free performance. The modulator can be used to convert video signals from Linear's access control systems to UHF or CATV signals that can be viewed on a standard television set at the installation.

FEATURES

- Converts the access system's camera video signal to a UHF or CATV channel television signal
- A quartz crystal reference oscillator and PLL circuitry ensure drift-free performance
- A television connected to the modulator's output will receive the signal when the television is tuned to the modulator's programmed channel

EXA-1000

Omni-directional Remote Antenna



Product No. AAE00198

The EXA-1000 can be connected to the F connector on many Linear receivers to improve their range when they must be located in poor signal reception locations.

FEATURES

- U-bolt for post mounting
- Includes 5 feet of coax
- 3" W x 19.5" H x 6" D

EXA-2000

Directional Remote Antenna



Product No. AAE00331

The EXA-2000 can be connected to the F connector on many Linear receivers to improve their range in a specific direction when they must be located in poor signal reception locations.

FEATURES

- Paintable PVC housing
- Includes 10 feet of coax
- Two mounting brackets included
- 21" W x 5" H x 1.5" D



Product No. ACP00907

GNB-1

Burial-mount Gooseneck

The GNB-1 Burial Mount Gooseneck is used for easy installation of keypads, telephone entry systems, and other access control products.

FEATURES

- Burial mount configuration
- Rugged, weather resistant, powder coated rolled steel construction
- Universal bolt pattern on base plate and faceplate fits all manufacturer's products
- 4" W x 74" H x 13" D

GNC-1

Curb-mount Gooseneck

The Model GNC-1 Curb Mount Gooseneck is used for easy installation of keypads, telephone entry systems, and other access control products.

FEATURES

- Curb mount configuration
- Rugged, weather resistant, powder coated rolled steel construction
- Universal bolt pattern on base plate and faceplate fits all manufacturer's products
- 5.25" W x 44" H x 15.5" D

OPTIONAL GOOSENECK STANDS (NOT SHOWN)

- 2120-428-BT Bi-level, with universal mounting. 1.5" dia. round
- 2120-392 Truck height only, 83", 1.5" dia. round
- 2820-067 For special stand (must provide specifications) - Contact factory

COMPATIBLE MODELS

- AK-11 Exterior Digital Keypad
- AKR-1 Exterior Digital Keypad with Radio Receiver
- AE-100 Commercial Telephone Entry System
- AE-500 Commercial Telephone Entry System
- AE1000Plus Commercial Telephone Entry System with Access Control
- AE2000Plus Commercial Telephone Entry System with Access Control
- AM-KP Exterior Keypad
- MDKP Exterior Wireless Keypad
- RE-1N Residential Telephone Entry System
- RE-1SS Residential Telephone Entry System
- RE-2N Residential Telephone Entry System
- RE-2SS Residential Telephone Entry System



Product No. ACP00906



Product No. ACP00941

TR-100

Trim Ring

The TR-100 is for recess mounting the Model AE-100 Commercial Telephone Entry System. The flush-mount trim ring attaches to the wall studs or custom framing. The AE-100 attaches to the mounting ring.

FEATURES

- Bendable mounting tabs
- Stainless steel finish matches AE-100 case
- Mounting hole size 10" W x 12" H



Product No. ACP00908

TR-500

Trim Ring

The TR-500 is for recess mounting the Model AE-500 Commercial Telephone Entry System. The flush-mount trim ring attaches to the wall studs or custom framing. The AE-500 attaches to the mounting ring.

FEATURES

- Bendable mounting tabs
- Stainless steel finish matches AE-500 case
- Mounting hole size 13" W x 11" H



Product No. ACP00909

TR-1000

Trim Ring

The TR-1000 is for recess mounting the Model AE1000Plus Commercial Telephone Entry System with Access Control. The flush-mount trim ring attaches to the wall studs or custom framing. The AE1000Plus attaches to the mounting ring.

FEATURES

- Bendable mounting tabs
- Stainless steel finish matches AE1000Plus case
- Mounting hole size 13-1/4" W x 16-1/4" H

TR-2000

Trim Ring



Product No. ACP00914

The TR-2000 is for recess mounting the Model AE2000Plus Commercial Telephone Entry System with Access Control. The flush-mount trim ring attaches to the wall studs or custom framing. The AE2000Plus attaches to the mounting ring.

FEATURES

- Bendable mounting tabs
- Stainless steel finish matches AE2000Plus case
- Mounting hole size 15-1/2" W x 19" H

TR-RE2N

Trim Ring



Product No. ACP00915

The TR-RE2N is for recess mounting a Model RE-2N Residential Telephone Entry System. The flush-mount trim ring attaches to the wall studs or custom framing. The RE-2N attaches to the mounting ring.

FEATURES

- Bendable mounting tabs
- Nickel finish matches RE-2N case
- Mounting hole size 10-1/4" W x 6-1/4" H

TR-RE2SS

Trim Ring



Product No. ACP00917

The TR-RE2SS is for recess mounting a RE-2SS Residential Telephone Entry System. The flush-mount trim ring attaches to the wall studs or custom framing. The RE-2SS attaches to the mounting ring.

FEATURES

- Bendable mounting tabs
- Stainless steel finish matches RE-2SS case
- Mounting hole size 10-1/4" W x 6-1/4" H

CAB-1

Metal Indoor Cabinet



Product No. ACP00420

The CAB-1 is a metal cabinet for housing the AM3Plus. It is for use in indoor applications.

FEATURES

- Locking metal cabinet
- For indoor use
- Lock included
- 11.25" W x 14.25" H x 3.5" D

CAB-3

Metal Outdoor Cabinet



Product No. ACP00913

The CAB-3 is a NEMA 3R rated metal cabinet for housing the AP-5 or AM3Plus. It is for use in outdoor applications.

FEATURES

- Locking metal cabinet
- For exterior use
- NEMA 3R rated
- Lock included
- Provisions for padlock
- 12" W x 12" H x 4" D

The following transmitters are compatible with Linear access control receivers. Please reference the Linear Radio section of this catalog for specific information on each model.

FACTORY BLOCK CODED / KEYCHAIN MODELS



ACT-31B: 1-Channel Block Coded Key Ring Transmitter



ACT-34B: 4-Channel Block Coded Key Ring Transmitter



ACT-31D: 1-Channel Block Coded Key Ring TRANS PROX Transmitter & Proximity Tag



ACT-34D: 4-Channel Block Coded Key Ring TRANS PROX Transmitter & Proximity Tag

FACTORY BLOCK CODED / VISOR MODELS



MT-1B: 1-Channel Block Coded Visor Transmitter



MT-2B: 2-Channel Block Coded Visor Transmitter

CUSTOM BLOCK CODED / KEYCHAIN MODELS



ACT-21B: 1-Channel Custom Block Coded Key Ring Transmitter



ACT-22B: 3-Channel Custom Block Coded Key Ring Transmitter



ACT-31C: 1-Channel Custom Block Coded Key Ring Transmitter



ACT-34C: 4-Channel Custom Block Coded Key Ring Transmitter

CUSTOM BLOCK CODED / VISOR MODELS



MDT-1B: 1-Channel Custom Block Coded Visor Transmitter



MDT-2B: 2-Channel Custom Block Coded Visor Transmitter



MDT-4B: 4-Channel Custom Block Coded Visor Transmitter



Wiegand Output Radio Reader Model WOR

- **Easy way to equip ANY Wiegand input access control panel with radio transmitter access.**
- **Connects as easily as card readers; transmitters are added like cards, with no software changes required.**
- **Keyless entry offers user convenience, safety, and security for triggering gates, barrier arms, and doors.**
- **Ideal way to facilitate handicapped access.**
- **Multi-button transmitters can double as personal emergency devices for triggering security alarms.**
- **RF input/Wiegand output receiver supports 26, 30, or 31-bit data formats.**
- **Wide selection of MegaCode (over 1 million codes) format transmitters, with available block coding.**
- **Field adjustable read range—from 5 to to 500 feet.**
- **Facility and ID codes tailored to system requirements.**
- **Weather-resistant case for mounting outdoors or in.**

Any existing access control system can be equipped with radio-based proximity sensing, by the simple addition of Linear's Radio Reader (Model WOR). Keyless entry, handicapped access, and emergency alert functions are easy to achieve with this wireless control technology.

With a read range of up to 500 feet, Linear transmitters facilitate handicapped access far more than close proximity or contact devices. For adding security at sites such as college campuses and parking garages, multichannel models allow access control and "panic button" functions to be combined in a single device.

The WOR uses a Wiegand output format (26, 30, and 31-bit supported) that interfaces to virtually any commercial access control panel. Long-range transmitters can be added as easily as Wiegand cards, and without software changes. Facility and ID codes can be matched to system requirements.

The 500 foot range of the WOR is made possible by superheterodyne receiver technology. It is supplied with a local whip antenna that screws directly onto the receiver's top connector. Two remote antennas are also available: the directional EXA-2000 or the omni-directional EXA-1000, both of which wire to the receiver's antenna connector with type RG-59 cable. An integral gain control is included to limit the maximum radio range that the WOR can achieve, if required.

A two-color LED acts as a status display. It lights red when the receiver is getting dc power from the system controller and turns green when access is granted to a transmitter. The radio LED lights when the receiver detects a transmission and can be used for troubleshooting and verifying system performance. Receiver test points are provided for listening to incoming signals.

The WOR is housed in a weather-resistant enclosure, so it can be mounted outdoors or inside. Gaskets and a weather-tight wiring strain relief seals the unit from the elements.



General Specifications

RADIO FREQUENCY

Frequency: 318 MHz

Bandwidth: 300 KHz minimum

Image Rejection: 40 dB

LO Reradiation: 200 μ V/meter @ 3 meters (maximum)

Data Format: MegaCode

Sensitivity: -100 dBm minimum

Sensitivity Adjustment: 20 dB variable attenuation at the antenna input

INPUTS

Power: terminal block input “+” and “Gnd”; input voltage operation 5 Vdc regulated or unregulated between +6 to +24 Vdc with reverse polarity protection

Hold: terminal block input “Hold”; follows standard Wiegand hold line conventions; hold line can be overridden via dip switch

Antenna: 9-1/2 in whip antenna with F-connector (supplied)

OUTPUTS

Data: terminal block output “Data 0” and “Data 1”; standard Wiegand electrical and protocol interface

LEDs: Red RF activity LED indicates RF activity at 318 MHz; red/green decode LED is green during Wiegand data transmissions and receiver hold timing window (if enabled) after any output transmission, otherwise it is off unless hold enable is selected, in which case LED will remain red until hold is removed by host system

CONTROLS

Pushbutton: momentary switch labeled “Program” used to configure microprocessor after system option selection and configuration

Dip Switches:

Receiver Facility Code: four positions to select 1 of 16 possible MegaCode facility codes; if code 0 is selected, the receiver will validate any received facility code; any other selection requires the transmitters’ facility code to match the receiver facility code selection for validation

Output Facility Code: 16 positions to select one of 65,536 possible facility codes; a selected output format may not use all 16 bits

Output Format: 3 positions for selecting either 26-bit, 30-bit, or 31-bit Wiegand output format

Button Disable: 5 positions, each corresponding to 1 of 5 possible MegaCode transmitter buttons — left or top left, right or top right, bottom left, bottom right, top

Receiver Lockout Disable: 1 position; if set to ON, the 1 second receiver lockout is not performed

Button Offset: 1 position; if set to ON, the transmitter ID number is offset with a number based on which button is pressed:

| Button | Offset |
|----------------------|--------|
| Left | 0 |
| Right | 16384 |
| Top | 32768 |
| Bottom Left or Right | 49152 |

ENCLOSURE

Weather-resistant, anodized aluminum enclosure with removable end caps to provide wiring and programming access; end caps secured with screws

OPERATING TEMPERATURE

-22° to +155°C (-30° to +70°C)

ELECTRICAL

Robust RFI and ESD protection for all inputs and outputs, including antenna input; protection to prevent output errors during brownouts

WIRING

Five conductor cable up to 300 feet, BELDEN 9929 or equivalent (24 AWG); up to 500 feet, WEICO 9404 or equivalent (20 AWG); up to 1,000 feet, CAT-5

AVAILABLE ACCESSORIES

Antennas:

- EXA-1000:** remote, omnidirectional; includes mounting hardware and five feet of cable
- EXA-2000:** remote, directional-type; including mounting hardware and ten feet of cable

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AM-SEK Serial-to-Ethernet Converter Kit

- **Serial-to-Ethernet Module** developed for Linear's AM3Plus, AE1000Plus, and AE2000Plus panels
- **Remotely connect, control, program, manage, and monitor access panels over existing LAN and/or the Internet**
- **Offers an alternative to direct RS-232 serial connection to Node 1 of AB2000 and AXNET networks**
- **IP address and virtual COM port are easy to configure using Windows[®] based utility software**
- **10/100 Mbps fast Ethernet full duplex auto negotiation**
- **Serial connection speed 38.4 Kbps**
- **Housed in a metal case with DIN-rail and wall-mounting tabs**
- **15 kV ESD protection for serial port**

The AM-SEK Serial-to-Ethernet Kit provides a standard network TCP/IP connection for Linear's AM3Plus, AE1000Plus, and AE2000Plus access controllers. The module can be used as an alternative to a traditional telephone modem typically used for remote access to Plus panel controllers.

The converter module connects between the Plus panel's RS-232 Serial port and the installation's network. Access to the network can be through a Local Area Network (LAN) or directly to a Wide Area Network (WAN). Typically the module is connected to a port on a router located on the installation's LAN.

In Plus panel networks, with multiple panels interconnected via RS-485 wiring, the module connects to Node #1 of an AXNET network, or Node #1 of any AB2000 network.

For easy configuration and setup, a Windows[®] based software utility is included on the installation CD. The utility software is used for setting the module's IP address and the computers virtual COM port. The utility software is compatible with Windows XP[®], Windows Vista[®], and Windows 7[®].

Note: LIN-501C Module is only available in the AM-SEK Kit and is not sold separately.

Available in an Installer Friendly Kit!

Convenient and cost effective
Model: AM-SEK Order #: ACP00964

AM-SEK Kit Includes:



General Specifications

Power: 5 VDC from plug-in power supply (included), also supports a 9-30 volt DC redundant input from an external power supply

Network Connection: 100BASE-T RJ-45 connector

Network Speed: Fast Ethernet 10/100 Mbps

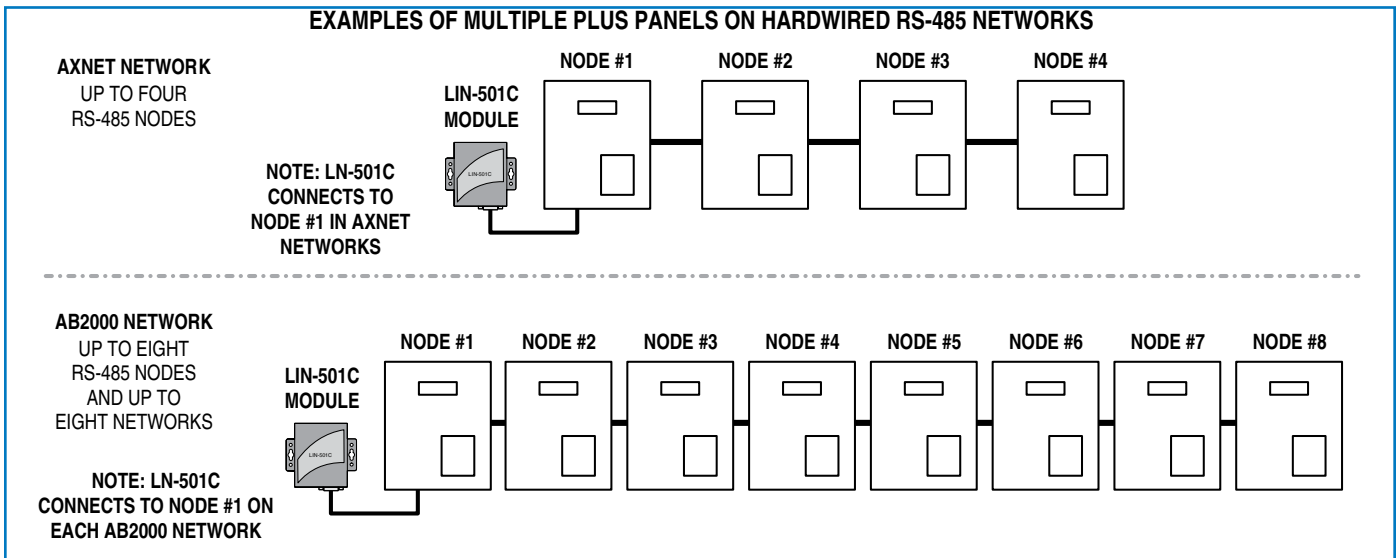
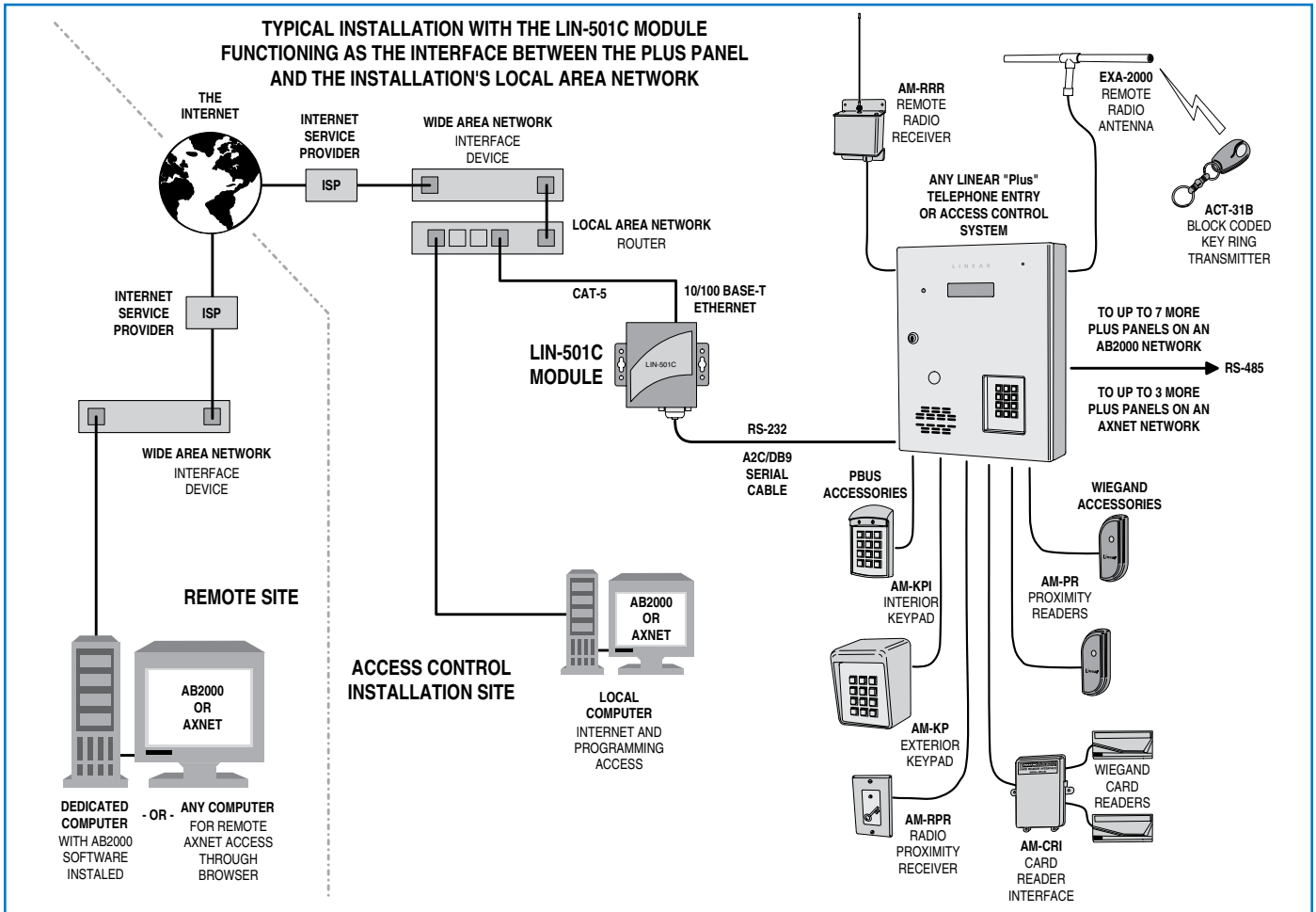
Serial Connection: Male DB9 for connection with A2C/DB9 serial cable (included)

Serial Port Speed: 38.4 Kbps

Mounting: DIN-rail or screw mounting

Dimensions (LIN-501C Module): 3-1/2" W x 3-3/4" H x 1" D

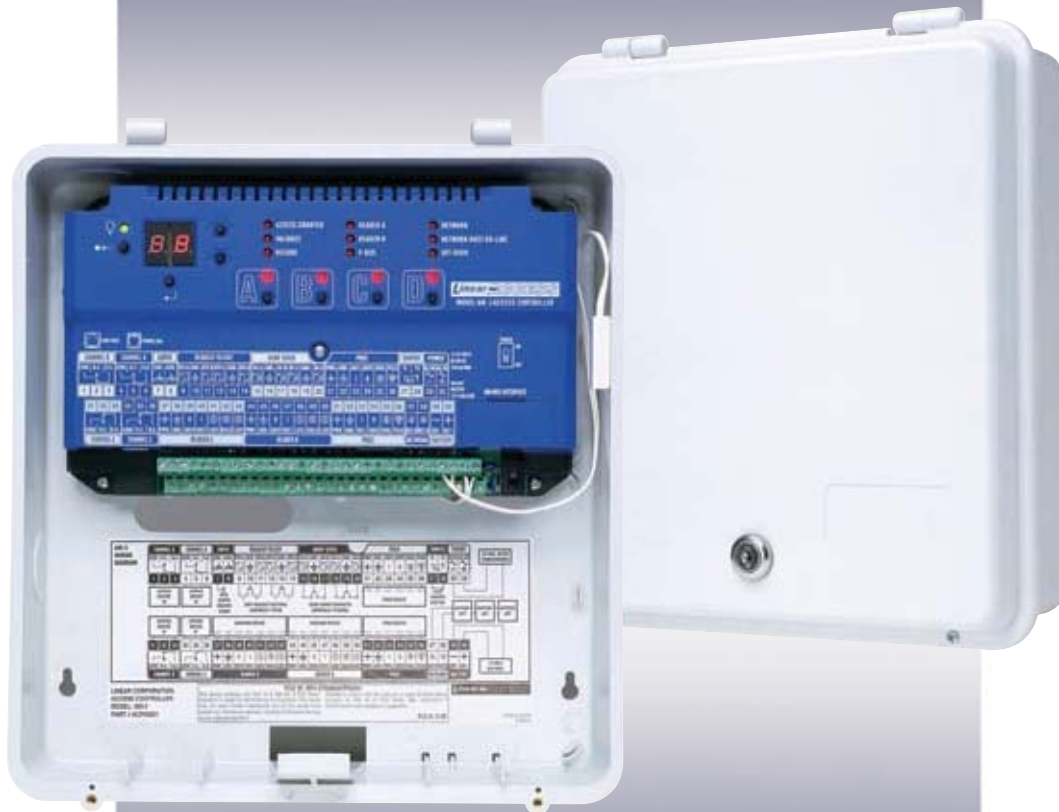
Weight: 6-1/2 ozs.



Network Issues

This data sheet only outlines basic installation examples. See additional setup/configuration information in "Quick Start Guide of AM-SEK" from Linear's website. LAN and WAN computer network topologies range from simple to large and complex. To setup and configure the LIN-501C on complex networks, it is highly recommended to seek assistance of an IT personnel responsible for maintaining such networks.

AM3Plus Access Controller for up to Four Doors/Gates



- Four General-Purpose Form “C” Relays for Main and Auxiliary Control Functions
- AccessBase2000 PC Based Software or AXNET Browser Based Programming Capabilities
- Compatible with Linear’s AE1000Plus and AE2000Plus Telephone Entry Systems
- Accepts Two 26, 30, or 31-Bit Wiegand Devices and Six Additional Addressable Remote Devices
- Lockable Plastic Enclosure for Indoor Use
- Optional NEMA 3R Enclosure for Outdoor Mounting

AM3PLUS CAPABILITIES

The AM3Plus multi-portal access controller has four built-in general purpose (Form "C") relays. Any one can be used for the control relay and the others for auxiliary control functions, including activation of safety edge reverse, or alarm shunting. In addition, the AM3Plus supports request to exit and door status monitoring for each relay. All relay contacts have extensive RFI, ARC, and lightning suppression.

The AM3Plus is supplied in a lockable plastic enclosure designed for indoor use. For outdoor mounting, an optional NEMA 3R enclosure (Model CAB-3) is available.

TWO PROGRAMMING CHOICES:

AM3Plus 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 below).

General Specifications

OUTPUTS

Relay: four 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

DISPLAY

Front Panel: two 7-segment LED displays for system configuration, status and troubleshooting

INPUTS

PBUS: two sets for connecting up to six proprietary addressable devices

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

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

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

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

Tamper: tamper switch activates when cabinet is opened

LEDs: 14 indicators for status and troubleshooting

POWER

12/24 VAC or VDC; 16 VAC transformer included

OPERATING TEMPERATURE

-22° to +149°F

DIMENSIONS

11.5 in L x 4 in W x 12.5 in H (292 x 102 x 318 mm)

CLOCK/CALENDAR

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

ENCLOSURE

Plastic cabinet suitable for indoor use; secure with lock/key (included) or screws

OPTIONAL EQUIPMENT

ACM-1: plug-in 33.6 Kbps modem for remote (dial-up) communications.

CAB-3: lockable NEMA 3R enclosure for mounting the AM-3 outdoors

AM-RRR: remote radio receiver for wireless transmitters

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 |
| 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 |
| 2,500 event log entries per unit |
| Up to eight access time zones |
| Up to four PBUS and two Wiegand devices per unit |

*AM-RRR Remote receiver required

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RE-1 NICKEL

RE-1 STAINLESS STEEL



RE-2 STAINLESS STEEL



RE-2 NICKEL

General Specifications

OUTPUTS

Relay: two form "C" relays rated at 3A @ 30 Vac or Vdc, each programmable for control, obstacle, alarm or shunt

Sounder: programmable for key presses and relay activation

Voice: synthesized human voice prompts for visitor and programming assistance; voice is heard through speaker and remote telephones

INPUTS

Antenna: RE-1 built in, RE-2 external

Call Button: push button input used to initiate communications

RF: integral 318 MHz super heterodyne receiver @ -100dBm sensitivity (typical); receives Linear block coded transmitters and MGT supervised safety edge transmitters

Open Request: terminal input for each relay; when activated, will trigger the assigned relay for the programmed relay on time

Door Sense/Inhibit: terminal input for each relay monitors status of a protected entry point or can be programmed to restrict access to the assigned relay

Keypad: 12 digit telephone style keypad for accepting entry codes and for local programming

Power: 16 Vac (transformer included); input for externally charged 12 to 24 Vdc battery backup

Current Draw (dialing out to one phone):

16 Vac: 270 mA standby
440 mA operating
12 Vdc: 250 mA standby
500 mA operating
24 Vdc: 150 mA standby
300 mA operating

Operating Temperature: -22°F to 149°F (-30°C to 65°C)

PROGRAMMING

Locally via keypad; remotely via touchtone telephone or computer with modem running a web browser; NO SOFTWARE REQUIRED

Memory: all data memory is stored in non volatile EEPROM with data retention in excess of 10 years

Clock/Calendar: 24/7 clock/calendar with battery backup used for time zones; relay hold open times; date/time stamp for event log entries; downlight on/off times

Connections: all power, telephone, relay and control connections to the unit are with plug on screw terminal blocks; RJ-45 and BNC connections for optional camera kit

STANDARD EQUIPMENT

RE-1 and RE-2: residential telephone entry systems that are capable of sharing an existing phone line, a dedicated line, and dialing out up to 3 additional off site numbers or used as an intercom; integral keypad used to accept entry codes; integral radio receiver will accept signals from block coded transmitters; built-in clock calendar; voice prompts; accepts one remote keypad; provisions for dealer installed (not included) Knox switch; telephone bypass switch

AVAILABLE ACCESSORIES

RE-BWC1: RE-1 field upgradable black & white CCTV camera which includes infrared illuminators for clear picture in low/no light conditions; powered by the RE-1

CCM-RE1: RE-1 field upgradable color CCTV camera; powered by the RE-1

CCM-2A: RE-2 field upgradable color CCTV camera; powered by the RE-2

CPDM-1 Digital Modulator: Converts camera video signal to a UHF or CATV channel television signal

AM-KP: auxiliary wired keypad used for accepting entry codes to control a second door or gate

Block Coded Transmitters: programming remotes into the RE-1's integral radio receiver can be done with just a few keystrokes

RE-2 Trim Rings

- For the RE-2N use trim-ring P/N ACP00915
- For the RE-2SS use trim-ring P/N ACP00917



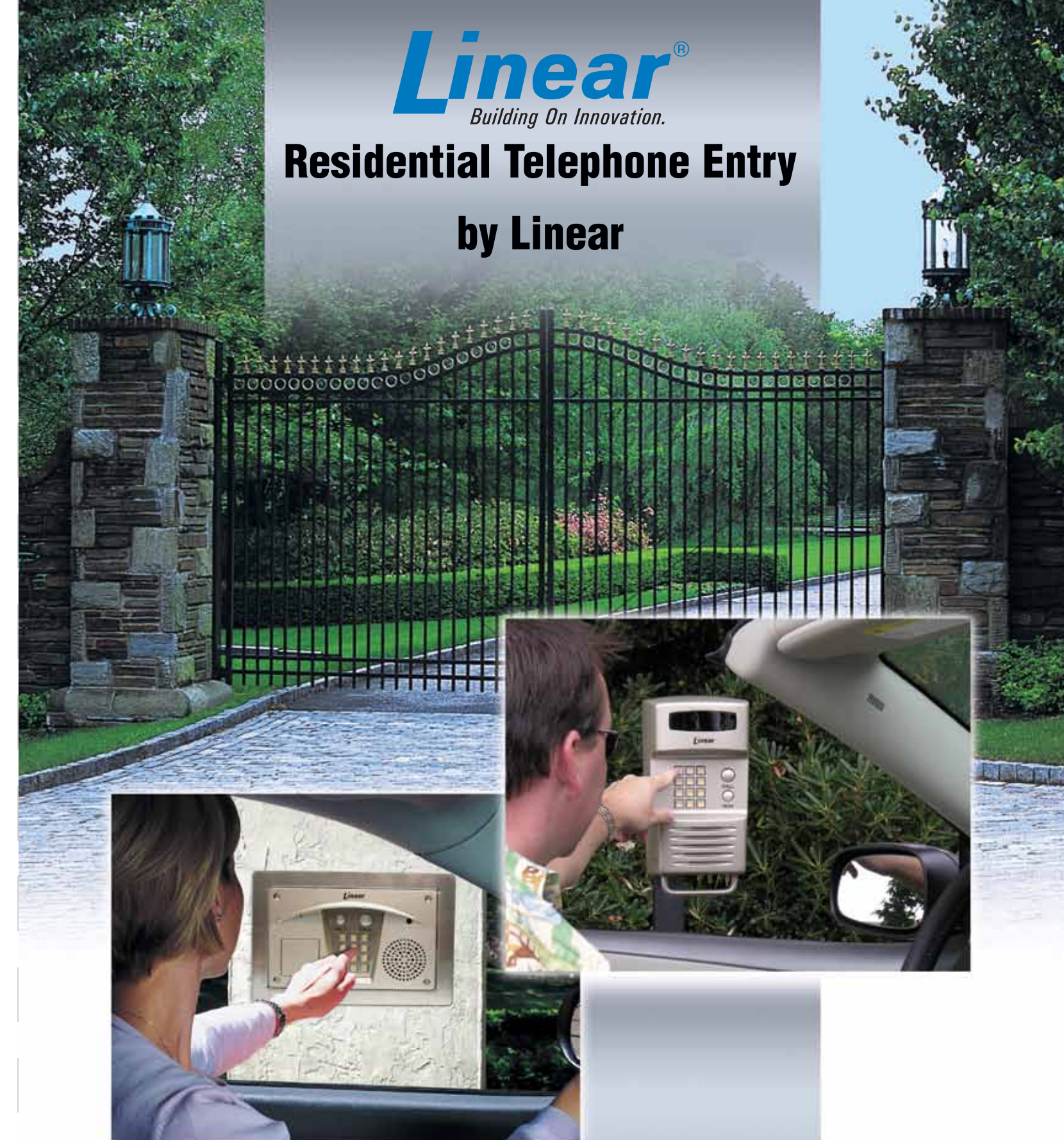
Trim-ring hole dimensions

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Residential Telephone Entry by Linear



America's gatekeeper.

Linear at the gate.

Linear's Residential Telephone Entry systems are an unparalleled marriage of style and technology — products that both make a strong statement and perform an essential function.

In terms of design, the RE-1 and RE-2 are unlike any other residential entry product on the market. Uniquely styled and available in a choice of powder coated nickel or stainless steel — they have all the characteristics of a high-end, architectural-grade, custom-designed system. Simple, striking, and trend-setting, the RE-1 and RE-2 do more for home owners than provide a means for screening visitors and granting access to their residence. They convey a subtle statement of affluence. They send a message to guests arriving at the gate that they have come to a place of importance.

Functionally, the RE-1 and RE-2 bring the cutting edge of access technology to residential entry applications. They are the epitome of access control merged with convenience, from their full complement of voice response capabilities to their built-in receiver, auxiliary control functions, and optional closed-circuit television monitoring feature.

Linear at the gate says it all. And has it all.

CAST HOUSING MEANS LASTING BEAUTY.

Linear's residential telephone entry system is the first to utilize cast stainless steel for its inherent strength and striking appearance. This housing can take hits from both Mother Nature and vandals and maintain its functional integrity and good looks. As an alternative to this stainless housing, the RE-1 and RE-2 also come in cast zinc with a powder coated nickel finish.

White down lighting that is both dramatic and practical is provided by an extremely long-life white LED source. The use of surface mount technology (SMT) for all electronic components minimizes the effects of interference from electro static discharge and protects against damage from lightning strikes.



CONTROL FUNCTIONS BEYOND THE GATE.

Both systems have two built in general purpose relays for maximum system functionality. One can be used for the control relay and the other for a myriad of auxiliary control functions, including activation of safety edge reverse, external lighting, or alarm shunting.

MEGACODE INSIDE. TELEPHONE ENTRY WITH WIRELESS!



The RE-1 and RE-2 are the only telephone entry systems presently available offering a built-in wireless receiver as standard equipment. 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.

VOICE PROMPTS. USER FRIENDLY, OWNER FRIENDLY.



Synthesized voice capabilities are built into the system to provide instructions for system users/owners, and to provide prompts for visitors, making the system extremely easy to operate. The voice response system

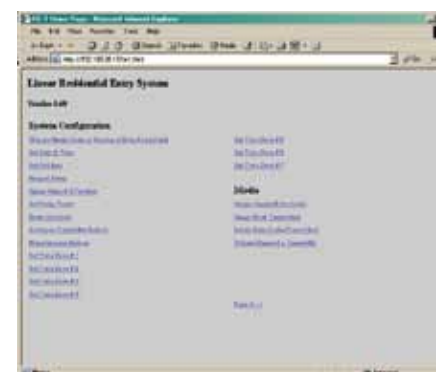
also provides confirmation during remote programming via touch-tone telephone and local programming.

VERSATILE TELEPHONE INTEGRATION.

The system can call up to three pre-programmed off-site numbers; it can generate call waiting tones; and it can call forward via time zone or resident command.

For on-premises communications, the systems have a number of valuable integration options. For a property with multiple entrances, guest houses, or separate apartments, any of these locations can be called, because up to four systems can share the same telephone line and provide communication functions. In addition, a separate INTERCOM mode allows connection to a PBX telephone system or a separate residential intercom system via just a pair of wires.

SOPHISTICATED YET SIMPLE PROGRAMMING.



Ease of installation is very much a part of the system concept. Providers can use a standard web browser to program the unit, thus eliminating the need for special software. Programming can also be accomplished from the keypad or via a touch-tone telephone.

User programming is equally easy. For example, time zone programming is provided to determine the time and/or day residents are active. Options are also provided to lock out prank calls in the middle of the night, and to lock or open doors and gates as needed.

OPTIONAL VIDEO CAMERA. THE ULTIMATE CALLER ID.



Each system can be field upgraded with a closed circuit television package that greatly enhances each unit's capabilities. The RE-1 supports a Model RE-BWC1 black & white camera or Model CCM-RE1 color camera, the RE-2 supports the Model CCM-2A color camera. Each miniature camera installs neatly inside the system with a covered lens window for camera protection and to provide an unobtrusive, non-intimidating appearance. Also, the RE-1 features infrared illuminators to ensure clear black & white images in low light conditions. In addition, Linear offers a Model CPDM-1 digital television modulator to inject the camera's video signal onto a custom television channel that can be viewed on a single television, or on multiple television sets.

MORE OPTIONS FOR A FULL-FEATURED SYSTEM.



The unique cast housing of the system has provisions for the integration of a Knox lock for applications requiring a means for emergency access onto the property. This feature eliminates the need for an unsightly separate lock box, thus preserving the RE-1 and RE-2's outstanding aesthetics.



For residences with a second drive entrance, a service entrance, or additional vehicle gates or walk gates, auxiliary keypads are available to provide entrance control. These keypads, part of Linear's access control product line, are also valuable when there is a need to have a keypad code to exit the property.

Finally, driveway sensing can be provided for with a loop detector to trigger the system to announce a vehicle at the gate or to activate a relay to provide more light at the gate.

MORE THAN SINGLE-DWELLING CAPACITY.

The RE-1 and RE-2 are not limited to residential applications. With their capacity for 100 entry codes and their ability to support up to 100 transmitters they are ideal for sites such as employee parking lots and commercial parking garages. Premises entry can be via keypad as well as transmitter. System activity may be monitored and logged (450 event capacity) for retrieval via computer.

CONTROL ACCESS AND COMMUNICATIONS FROM ANY TELEPHONE, EVEN OFF-SITE



Granting access and controlling the gate operator is as easy as dialing the telephone. Both access relays can be individually controlled using a TouchTone® telephone. If the access gate needs to be opened,

without a call from a visitor, any telephone in the house can be used to open the gate by keying in a five digit code pattern. The telephone codes can be used to latch or release either of the access relays,

If an unexpected visitor arrives, or is seen at the entry area with the system's optional CCTV camera, a code from any on-site telephone can activate the system's 2-way audio communication circuitry. This is an outstanding feature allows remote monitoring and speaking to the entry system area with the unit's high-gain microphone and speaker.

Off-site, anywhere in the World, a telephone can be used to control the access relays. The system uses a programmable 6-digit password to authorize access for the remote telephone control functions.

NO ONE HOME? FORWARD THE CALL FOR ACCESS



The call forwarding feature allows a visitor to contact the resident at a programmed telephone number instead of through the on-site telephones. The feature can be set to be active during a selected time (set with the system's seven unique time zone schedules) or at all times. The telephone number programmed can contain an extension number and an optional time delay before dialing the extension.

The call forwarding feature can also be set to call the on-site telephones first, then if there's no answer, place a call to the programmed forwarding telephone number. During the forwarded call, the access relays can be controlled simply by using the telephone's keypad.

AE-100 Telephone Entry System

**125 TENANT CAPACITY.
INFINITE POSSIBILITIES.**

This is one of those cases where less is more. A lot more. Linear's AE-100 is a versatile telephone entry system for smaller commercial applications. But its feature set is more advanced and comprehensive than systems three times its size.

- 125 directory or personal entry codes are standard; no costly, ongoing memory upgrades
- Supports up to four AE-100s on shared telephone line with "single location update"
- Local programming with system keypad; remote programming with touchtone telephone
- Easy-to-read LCD display: back-lit, 2-lines, 16 characters per line, 0.3" height
- Numeric keypad with user-friendly built-in help, call and directory scrolling buttons; keypad lit with long-life white LEDs
- Load shed prevents battery damage under low voltage conditions
- ADA compliant front panel TTY Jack for hearing impaired and voice greetings in 4 languages: English, Spanish, French Canadian, and Portuguese
- Optional, field upgradable color camera
- Brushed stainless steel front panel
- Available in flush mount or surface mount for indoor and outdoor applications
- Postal lock ready
- Listed to UL294 and Canada C22.2 No. 205-M1983 and complies with FCC part 15 for computing device and FCC/Canada for telephone devices



AE-100 GENERAL SPECIFICATIONS



PROGRAMMING

Telephone Entry: Over 30 programmable parameters, including directory code length, display messages, and languages

OUTPUTS

Access Relay: 10-amp AC/7-amp DC @30 Volts AC/DC ratings; normally open and normally closed contacts

DISPLAY

Front Panel: LCD technology, 2 lines by 16 characters, 0.3" height

Keypad Lighting: Illuminated LED lighting for the front panel keypad

ELECTRICAL

Input: 16 VAC from supplied plug-in transformer

Current Consumption: <200 mA idle, <500 mA operating

Back-up Battery: Built-in charger with up to 7 A/H battery capacity

Dialing: DTMF

ENVIRONMENTAL

Temperature: -22° to +149°F (-30° to +65°C)

Humidity: 5% to 95% non-condensing

DIMENSIONS

Case: 9-3/4" W x 11-3/4" H x 3-1/2" D

(248 x 298 x 89 mm)

Optional Trim Ring Mounting Hole Size: 10" W x 12" H
(254 x 305 mm)

MEMORY

125 directory or personal entry codes; all data is stored in non-volatile memory

CONNECTIONS

Wire connections via removable terminal blocks

ENCLOSURE

16-gauge powder coated steel cabinet; 22-gauge brushed stainless steel front panel

STANDARD EQUIPMENT

AE-100 Telephone Entry System: Integral keypad, display, speakers, and microphone; surface or flush mounting, indoors or outdoors

OPTIONAL EQUIPMENT

Trim Ring: For flush/recess mounting, Linear Model TR-100

Color Camera: Linear Model CCM-1

Battery Backup: Linear Model 12VGB

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Linear ACCESS[®]

AE-500 Telephone Entry for One or Two Doors/Gates



**Everything you need for
systems of up to 250 users.**

The AE-500.

Telephone entry as easy as

The guiding principle behind Linear's AE-500 is that a telephone entry system should be a model of simplicity. Easy to specify. Easy to install. Easy to configure. And above all, easy to use. A close examination of every aspect of this system reveals that ease is an across-the-board attribute.

That makes the AE-500 desirable for installations with as few as 25 users or as many as 250. Multi-tenant sites like gated communities, apartments, condominiums, and dormitories can all benefit from its simplicity and its expansive capabilities.

The AE-500 provides control for a single gate or a door, two gates, two doors, or a gate and a door. 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.

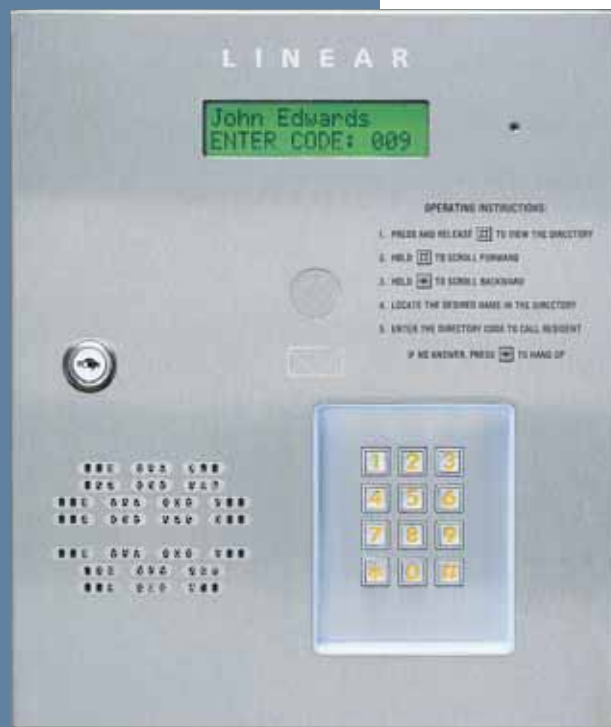
By every meaningful measure, Linear makes telephone entry easy.

ROBUST MEMORY, VIVID DISPLAY, RADIO, MODEM — THE COMPLETE PACKAGE.

There is nothing incremental about the AE-500. For a simple system, it comes fully equipped for your telephone entry application. It has ample non-volatile memory for up to 250 users, which means that even if you start with 25 users, you won't need to keep adding more memory blocks (at greater expense) as your needs grow. That memory stores up to 250 directory codes, 500 block-coded MegaCode transmitters, and 500 entry codes. An entry code can

be programmed for unlimited use or as a temporary code for up to 250 activations. The latter type is ideal for contractors and other short-term system users. An especially 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. A built-in radio offers additional entry capabilities via wireless transmitter control.

An integral modem greatly simplifies programming.



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.

MEGACODE INSIDE. TELEPHONE ENTRY WITH WIRELESS!

Like all Linear telephone entry systems, the AE-500 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 operators. 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-500'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-500. It installs inside and receives power from the control board. The color camera doesn't just add value to the AE-500; 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-500.



CONTROL FUNCTIONS BEYOND THE DOOR AND/OR GATE.

The AE-500 has two built-in general purpose (form "C") relays. Both can be configured for open/close. One can be used for the control relay and the other for a myriad of auxiliary control functions, including activation of safety edge reverse, external lighting, or alarm shunting. All relay contacts have extensive RFI, ARC, and lightning suppression.

INSTALLATION CHOICES ABOUND.

The AE-500 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.

SOPHISTICATED YET SIMPLE PROGRAMMING.

Computer programming the AE-500 via a standard web browser eliminates the need for special software. Programming can also be accomplished from the AE-500's keypad or via a touch-tone telephone.

MORE OPTIONS FOR A FULL-FEATURED SYSTEM.

In addition to the aforementioned remote control transmitters, alternative mounting accessories, and extended range antennas, the AE-500 can be easily equipped with other valuable options. For instance, Linear offers add-on keypads for access control at a second door or gate.



General Specifications

COMMUNICATIONS

Full Duplex, hands free operation

PROGRAMMING

Telephone Entry: 2-4 digit directory code length, display messages, talk time duration

OUTPUTS

Relay: 2 form "C" relays; both can be configured for open/close; all relay contacts have extensive RFI, ARC and lightning suppression

Modem: for remote programming - 14.4 Kbps

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: 1 set for connecting proprietary wired keypad

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

Request To Exit: 2 normally open inputs; each input assigned to specific relay

Door Sense: monitors status of main relay

LEDs: for configuration, status and troubleshooting

POWER

12/24 VAC or VDC
500 mA DC typical; 750 mA DC maximum

OPERATING TEMPERATURE

-22° to +149°F

DIMENSIONS

12.75 in H x 10.75 in W x 3.5 in D (3.24 x 273 x 89 mm)

Optional Trim Ring: 14.75 in H x 12.75 in W x 2.75 in D (375 x 324 x 70 mm)

MEMORY

250 directory codes, 500 block coded MegaCode transmitters, 500 entry codes; entry codes can be programmed for unlimited use or temporary use with up to 250 activations; all data is stored in non-volatile memory

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-500 Two Portal Telephone Entry system with built-in radio receiver and modem for computer programming; accepts transmitters and keypads as inputs; surface or gooseneck mounting standard

OPTIONAL EQUIPMENT

CCM-1: color camera receives power from control board
CPDM-1: digital modulator converts raw video output of camera to TV channel for distribution

TR-500: 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

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Linear[®]
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

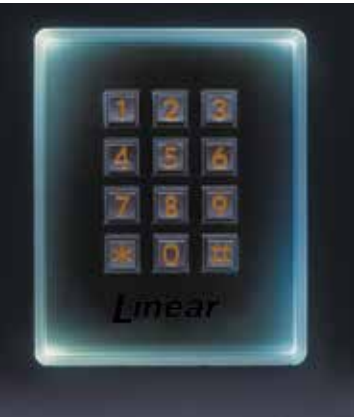
— security levels (32 Validation Groups), by date and time (32 Time Zones), by door (32 Door Schedules), and by floor (32 Floor Schedules). In addition, so you can keep a running check of all entrances and exits, the AE1000Plus maintains a transaction log of the last 20,000 events.

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 transreflective,

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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Linear ACCESS™

AE2000Plus

The Ultimate in Telephone Entry.



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



The AE2000Plus.



The big picture.

A display that welcomes and informs.



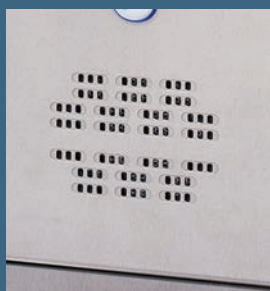
As befitting Linear's flagship telephone entry system, Linear has equipped the AE2000Plus with an attractive, highly functional display. Visitors will have no trouble using the AE2000Plus to locate and contact residents. A temperature-compensated, back-lit, VGA resolution, LCD display presents up to 24 names at a time on separate alphabetical screens. That is in stark contrast to most telephone entry systems, which require you to scroll continuously through the entire alphabet, searching for a name. The three keys directly below the display operate as "soft keys," changing functions with each mode. For instance, in the Directory Mode, the keys become A and Z directional controls for scrolling through the alphabetical listings. In the Information Mode, the keys permit switching between English and Spanish.

ABCDEFGHIJKLMN OPQRSTUVWXYZ

| | | | |
|---------------|------|----------------|------|
| COLE BEN | 0159 | COLE WIL | 0165 |
| COLEMAN MILES | 5891 | COLLINS ANDREW | 0289 |
| COLLINS DEREK | 0505 | COMER CARL | 0748 |
| COMO PERRY | 1162 | CONISON JOEL | 9539 |
| CONNEK DANNI | 0373 | CONNELLY JIM | 2464 |
| COOK ANISSA | 0535 | COOPER MORGAN | 9646 |
| CORONA PABLO | 0110 | CORT DIONNE | 0531 |

COSSON CHR
COTRICE
CRANE JACO
CRANSTON R
CREATIVE ST

| | | | |
|----------------|------|---------------|------|
| CROFT KELLEY | 0508 | CROMERO PATRI | 0410 |
| CROOK JENNIFER | 0672 | CROSBY BING | 1142 |
| CROSSLAND DAV | 0188 | CROVER JOHN | 0149 |
| CRUDUP AKIAH | 0010 | CUFFEE GOLDIE | 9095 |
| CUNHA RICARDO | 0278 | CUNNINGHAM KE | 0461 |



The AE2000Plus is quite the greeter and the instructor. Its friendly, automatic voice prompts guide visitors step-by-step to simplify usage. That includes switching to provide instructions in either English or Spanish.



The guiding principle behind Linear's AE2000Plus 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.

A 10,000 user capacity is standard with the AE2000Plus.

to access programming using Linear's AccessBase2000 software. Both choices allow multiple unit connectivity (see capabilities in the table on the back page).

NOT JUST TELEPHONE ENTRY. TELEPHONE ENTRY WITH ACCESS CONTROL.

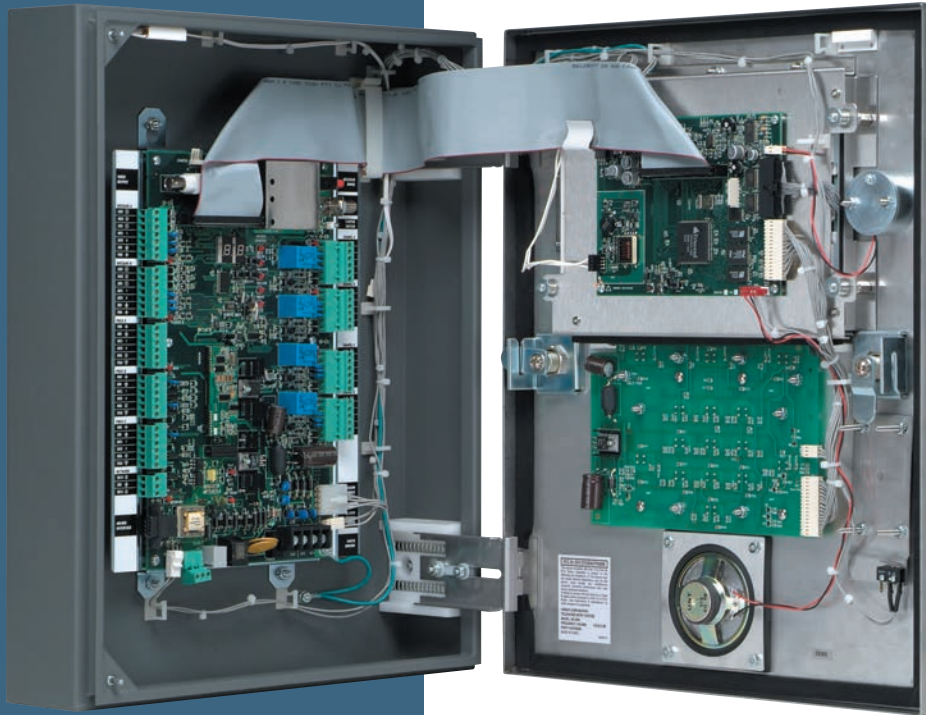
You could use the AE2000Plus as just a telephone entry system. It has a 10,000 user capacity and each user can have a unique directory code. Handy features like a programmable display message, adjustable talk time, and extended talk time per user add more value. However, the real benefits of the AE2000Plus 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). In addition, so you can keep a running check of all entrances and exits, the AE2000Plus 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, articulated, double-locking front panel. Its built-in keypad is likewise manufactured for constant pressure applied by many fingertips over many years. Individually illuminated back-lit keys make it easy to read even after hours.

MEDIA EXPERT. FROM TRANSMITTERS. TO CARD READERS. TO KEYPADS.


Building access control around the AE2000Plus is easy, because the system supports so many diverse devices. A variety of other door/gate controls can be added to manage access at other entrances. Two sets of Wiegand inputs allow connection of most standard card readers. The AE2000Plus can also accept external wired keypads. A built-in radio that employs Linear's popular



Si Ud. tiene un código de acceso, presione la tecla  y entre el código.

Si Ud. sabe el código del residente, presione la tecla  y entre el código.

Para llamar a un residente: use las teclas "de la flecha" para encontrar el nombre del residente, y entre el código asociado.

Para cancelar la llamada de teléfono, presione la tecla 

EXHIBIMOS ESPAÑOL.

For those of you who don't speak Spanish, that means "We display Spanish," a very valuable built-in attribute for an telephone entry/access control system. The bilingual AE2000Plus gives visitors that option right up front, so that all subsequent instructions are as easy to follow in Spanish as they are in English.

Commercial sites, like apartments, condominiums, residential communities, and industrial complexes can all benefit from its simplicity and expansive range of capabilities.

The AE2000Plus provides control for up to four portals (gates and/or doors). It includes a built-in radio for adding remote control via user transmitters.

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.

TWO PROGRAMMING CHOICES:

AE2000Plus 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

MegaCode® format permits use of handheld, visor clip, and keychain transmitters (not coincidentally, Linear offers the industry's largest selection of styles) to achieve additional remote control over gates and door openers.

The integral receiver can also be used with external remote receivers and a choice of optional antennas for added range and capabilities.



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 AE2000Plus. It installs inside and receives power from the control board. The color camera doesn't just add value to the AE2000Plus; 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 AE2000Plus.

CONTROL FUNCTIONS BEYOND THE DOOR AND/OR GATE.

The AE2000Plus 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 AE2000Plus supports *request to exit* and *door status* monitoring for each relay. All relay contacts have extensive RFI, arc, and lightning suppression.

SURFACE. FLUSH. GOOSENECK. YOUR INSTALLATION OPTIONS KEEP MOUNTING.

The AE2000Plus goes just about anywhere telephone entry is needed. An optional trim ring and a standard stainless steel enclosure with articulating double-lock configuration

combine to make it wholly unique — the industry's only telephone entry system with a living hinge that can also be flush mounted. The AE2000Plus can also be surface mounted or put on a gooseneck to give you total installation flexibility.

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.



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: Temperature compensated VGA LCD technology

Keypad Lighting: individual back-lighting per key

INPUTS

PBUS: 3 sets for interconnection of up to six 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: Integral 318 MHz super heterodyne receiver with -100 dBm sensitivity; built-in 20 dB adjustable attenuator for fine tune performance

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 control portal to support forced door./propped door alarm; also for auto-relock

POWER

Input Power: 120 VAC, 60 Hz

Operating Power: 12 or 24 VAC or VDC

OPERATING TEMPERATURE

-22° to +167°F

DIMENSIONS

19" H x 15.25" W x 4" D

Optional Trim Ring: 21" H x 17.25" W x 4" 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 with articulating double-lock configuration

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-2000: trim ring for completely flush/recess mounting

NOW AVAILABLE:

- Optional AM-SEK kit provides ethernet compatibility
- AM-RS232 Extender Kit provides up to 1,000' connectivity

OPTIONAL EXTENDED RANGE 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 9,999 telephone directory codes for cardholders |
| 20,000 event log entries per unit |
| Up to 31 access time zones |
| Up to six PBUS and two Weigand 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 |
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| Up to four PBUS and two Wiegand devices per unit |




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