

Access Control Keypads

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



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

COMMON FEATURES

- Up to 480 programmable input codes.
- 4 independent outputs with programmable actions, activation times.
- Dual color LED indicators for access, lockout, and programming status.
- Tactile feedback ensures complete key presses.
- Internal sounder with selectable volume levels.

Up to 480 codes (1 to 6 digits each) can be programmed via any Linear keypad without need for a separate programmer. Each can activate either or both relay outputs. Timed anti-passback prevents use of the same code again before time elapses.

SENSE input: If programmed for “door sense,” input is wired to a normally closed switch to detect when door is open or closed. Forced entry or door ajar situations can be detected. If programmed for “inhibit,” input can be wired to service switch or timer to disable main relay.

REQUEST-TO-EXIT input: Can be wired to a pushbutton for codeless activation of main relay, auxiliary relay, output 3, or output 4.

ALARM shunt: Activates when access is granted. It can be wired to shunt alarm contacts on the access door/gate to prevent alarming when access is authorized.

Other programmable features include: system reset key(s); entry code length; adding a PIN; erasing any or all PINs; changing master code; on-time for each output; keypad lockout upon incorrect PINs; and anti-passback time period (or no anti-passback). EEPROM memory retains all entry codes and programming, even without power.

Common Specifications

ELECTRICAL

Voltage: 12-24 Vac or Vdc (ac supply must be isolated); power can be from access device or separate supply
Outputs: Relay #1, Form “C” 5 Amps @ 28 Volts maximum; Relay #2 (Auxiliary), Form “C” 1 Amp @ 28 Volts maximum; solid-state outputs (Outputs #3 and #4), short-to-common 100 mA @ 30 Vdc maximum

Inputs:

- a. Open Request: terminal input activates the programmed control relay
- b. Door Sense/Inhibit: monitors status of a protected door or can be programmed to restrict access to relay 1
- c. Keypad: for programming and PIN code entry

Display: two LEDs for system activity and program data

Sounder: programmable activation from key presses or output

ENVIRONMENTAL

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

Humidity: 5% to 95% non-condensing.

AK-1

EXTERIOR SURFACE MOUNT KEYPAD

- Rugged, cast aluminum enclosure for outdoor (or indoor) mounting on a wall or pedestal.
- Keylock secures keypad to mounting backplate.
- Pressing any key turns on down light.



Specifications

MECHANICAL

Dimensions: 4.00 in W x 5.50 in H x 3.00 in D (101.6 x 139.7 x 76.2 mm)

ELECTRICAL

Current: 10 mA typical, 150 mA maximum

AK-2

INTERIOR KEYPAD WITH INTERCHANGEABLE BEZELS

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



Specifications

MECHANICAL

Dimensions: 3.00 in W x 5.00 in H x 3.00 in D (76.2 x 127 x 76.2 mm)

ELECTRICAL

Current: 30 mA typical, 150 mA maximum

AK-2W

EXTERIOR FLUSH MOUNT KEYPAD

- Weather-resistant design.
- Die-cast metal housing and keys.
- Mounts in a single-gang electrical box.
- Clear plastic boot covers electronics; neoprene gasket seals in mounting.



Specifications

MECHANICAL

Dimensions: 3.00 in W x 5.00 in H x 3.00 in D (76.2 mm x 127 mm x 76.2 mm)

ELECTRICAL

Current: 30 mA typical; 150 mA maximum

AK-3

INTERIOR KEYPAD

- Cost effective interior keypad.
- Die-cast metal keys.
- Mounts in a single-gang electrical box.



Specifications

MECHANICAL

Dimensions: 3.00 in W x 5.00 in H x 3.00 in D (76.2 mm x 127 mm x 76.2 mm)

ELECTRICAL

Current: 30 mA typical; 150 mA maximum

AKR-1

KEYPAD WITH BUILT-IN RADIO RECEIVER

- All the features of the AK-1, plus a built-in radio receiver.
- Accepts 480 entry codes, 480 block-coded transmitters, plus one fully supervised safety edge transmitter.
- Rugged, cast aluminum enclosure; indoor/outdoor wall or pedestal mounting.



Two relay outputs are provided for gate or door access and for gate obstacle control using the MGT, industry's only supervised safety edge transmitter. If an MGT is not used, the second relay can control another door or gate.

Learning, suspending, or deleting entry codes or transmitters is as easy as pressing a few keys on the

AKR-1's built-in keypad. The AKR-1 is compatible with all Linear block-coded transmitters, which are programmed and supplied in sequential order. Each has a unique ID code and a facility code.

Specifications

MECHANICAL

Dimensions: 4.00 in W x 7.00 in H x 3.00 in D (101.6 x 177.8 x 76.2 mm)

ELECTRICAL

Voltage: 12 to 24 Vac or Vdc; power can be direct from most gate operators

Current: 150 mA maximum

Outputs:

- Relay: two form "C" relays rated at 1A @ 24 Vac or Vdc; one for control and one for obstacle
- Display: two LEDs for system activity and program data
- Sounder: activation from key presses or output

Inputs:

- RF: integral 318 MHz super regenerative receiver @ -95 dBm sensitivity (nominal); receives Linear block coded transmitters
- Open Request: terminal input activates the programmed control relay
- Door Sense/Inhibit: monitors status of a protected door or can be programmed to restrict access to relay 1
- Keypads: for programming and PIN code entry

ENVIRONMENTAL

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

Humidity: 5% to 95% non-condensing

WIRELESS KEYPAD KIT

MDKP Plus AP-4

- Supports 480 block-coded transmitters and/or 238 single learn transmitters/keypad entry codes, plus one supervised safety edge transmitter.
- Ideal for apartments, office buildings, commercial parking, gated communities, and industrial sites.
- Easy-to-install/program — no wiring or dip switches.
- Secure alternative to traditional keypads (no hard wiring for intruders or vandals to short out).

MDKP

COMMERCIAL WIRELESS KEYPAD

- Factory programmed MegaCode format supports over 1,000,000 codes.
- 1-6 digit user PINs.



- Long-life lithium battery.
- Rugged cast aluminum housing.
- Built-in downlight.

The MDKP can transmit a unique signal for each 1-6 digit PIN code. It has a built-in radio transmitter with a 250-foot range in line-of-sight conditions.

The MDKP can be illuminated for use at night or in dark areas. This feature can be turned on by pressing the # key twice; it remains on for 30 seconds or until a code is sent. It can be wall or a pedestal mounted.

Specifications

MECHANICAL

Dimensions: 4.00 in W x 7.00 in H x 3.00 in D (101.6 x 177.8 x 76.2 mm)

ELECTRICAL

Power: 9 V lithium battery (supplied)

Battery Life: 5 years with 25 activations per day

ENVIRONMENTAL

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

AP-4 CONTROLLER

- Supports 480 block coded transmitters or 238 single learn transmitters/keypad entry codes, plus one fully supervised safety edge transmitter.
- Easy to program and use.
- Easy to add/suspend transmitters and PINs — no dip switches to set.

At one entrance, the AP-4 can activate gate operators, door strikes, or door operators. It can mount inside the gate operator.

The built-in radio receiver has a 250 foot range that can be extended with an optional EXA-2000 antenna. Two relay outputs are provided: one for gate or door access; the other for obstacle control using the MGT, industry's only supervised safety edge transmitter. The AP-4 looks for an hourly report from the MGT. If anything needs attention, the AP-4 will beep every five seconds. The user must then activate the transmitter twice for the AP-4 to grant access.

The AP-4 is compatible with all MegaCode transmitters, which come programmed with one of 1,000,000+ codes.



Specifications

MECHANICAL

Dimensions: 3.625 in W x 5.25 in H x 1.5 in D (92.1 x 133.4 x 38.1 mm)

ELECTRICAL

Power: 12 to 24 Vac or Vdc; 250 mA maximum; power can be direct from most gate operators

Outputs:

a. Relay: two form "C" relays rated at 1A @ 24 Vac or Vdc; one for control and one for obstacle

b. Display: three 8-segment displays provide system activity and program information; LEDs used with displays to provide transmitter and radio activity

Inputs:

a. RF: integral 318 MHz super regenerative receiver @ -94 dBm sensitivity (nominal); receives MegaCode transmitters

b. Open Request: terminal input and button activates the control relay

c. Keypad: 16-key membrane style with tactile feedback for programming

ENVIRONMENTAL

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

Specifications subject to change without notice.

From activation to operation, the solution to your entry requirements is now totally Linear.

Since the mid 1950s Linear has been synonymous with wireless remotes 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 HP choices, all in installer-friendly designs. And Linear/OSCO gate operators, for swing, slide, and barrier gates in a complete range of residential, commercial, and industrial applications. Add in a field network known for dedicated customer support and your best entry systems resource is totally Linear.



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