KP-1020

Digital Access Keypad

Description

A weather-resistant keypad for indoor or outdoor access control. The KP-1020 supports up to 20 individual entry codes plus one toggle code for hold-open operation.

Authorized users can activate a momentary open command or toggle the hold-open function. A request-to-exit input allows exit without entering a code.

Mounts to a standard gooseneck, column, or wall. Nonvolatile memory retains stored data during a power failure.



Features

- 20 entry codes plus 1 toggle code
- Blue backlit keys
- Push button / request-to-exit input
- Programmable entry and master codes
- Three LED status indicators
- Nonvolatile code memory
- Invalid PIN lockout
- Metal housing and stainless steel faceplate

Warranty

One-year warranty against defects in materials and workmanship under normal use from the date of sale to the original purchaser. Warranty is available only through an SGC Authorized Dealer. Product specifications are subject to change without notice.

Your Authorized Dealer

Specifications

Operating voltage
12-24V AC/DC

Standby current
50 mA at 12 VDC; 60 mA at 24 VDC

Pull-in current
80 mA at 12 VDC; 100 mA at 24 VDC

Input
Request-to-exit

Relay output
N.O. / N.C. / Common dry contact

Relay rating
3 A at 120 VAC; 3 A at 24 VDC

Backlight
Blue LED; delay setting option

Strike time
1-99 seconds

Strike mode
Access timer or toggle

Code capacity
20 momentary; 1 toggle

Operating temperature
-4°F to 158°F (-20°C to 70°C)

Programming

Enter the current master code twice. Factory default: 1234. The green LED flashes three times, then blinks slowly. Press # to exit. Programming mode exits automatically after 60 seconds without input.

Examples use the factory master code 1234. After changing it, enter your current master code twice.

Change Master Code

*00 + new 4-digit master code + #

1 2 3 4 1 2 3 4 * 0 0 1 1 1 1 #

New master code: 1111.

Add Entry Code

*10 + new 4-digit entry code + #

1 2 3 4 1 2 3 4 * 1 0 2 2 2 2 #

Factory test entry code: 1010.

Delete Entry Code

*11 + existing entry code + #

1 2 3 4 1 2 3 4 * 1 1 2 2 2 2 #

Valid deletion: three green flashes.

Set Toggle Code

*20 + new 4-digit toggle code + #

1 2 3 4 1 2 3 4 * 2 0 3 3 3 3 #

Factory test toggle code: 5050.

Delete Toggle Code

*21 + existing toggle code + #

1 2 3 4 1 2 3 4 * 2 1 3 3 3 3 #

Valid deletion: three green flashes.

Set Relay Strike Time

*31 + 01-99 seconds + #

1 2 3 4 1 2 3 4 * 3 1 0 5 #

Factory setting: 5 seconds.

Entry code restrictions: Do not use 0000, 1234, the current master code, the toggle code, or an existing entry code. A maximum of 20 entry codes can be stored. When memory is full, new entries are rejected with three red LED flashes.

Terminal Connections

1-2 Power Input

Connect to a 12-24V AC or DC power supply.

3-4-5 Relay Output

3 = Normally Closed (N.C.). 4 = Common (C). 5 = Normally Open (N.O.).

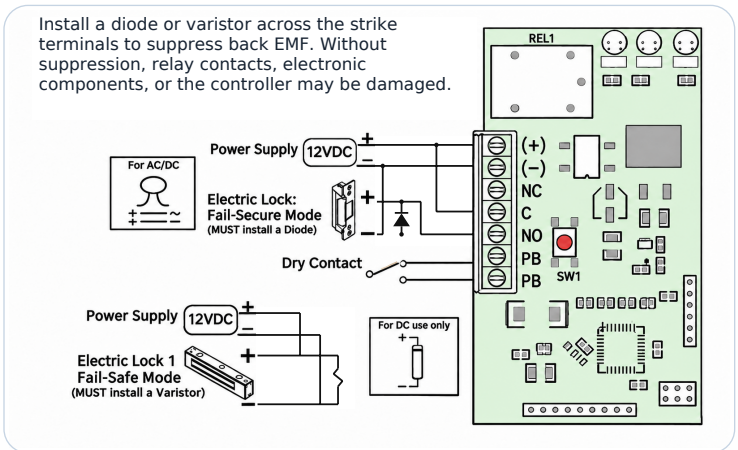
Gate Operator Wiring - Terminals 4 and 5

1. Connect terminal 4 (Common) to operator COM, or GND if specified in the operator manual.

2. Connect terminal 5 (N.O.) to the dry-contact trigger input: EXIT, OPEN, strike, or OPN. Follow the operator manual.

6-7 Request to Exit / Push Button

Connect a compatible normally open dry-contact push button, fire-box switch, or exit relay across terminals 6 and 7.



LED Status

Green steady: Ready for keypad input.

Green slow blink: Programming mode.

Green three flashes: Input accepted.

Red steady: Momentary output is active.

Red three flashes: Invalid input.

Yellow steady: Toggle / hold-open mode is active.

Master Reset - Clears All Memory

To clear all codes and restore default settings:

1. Locate the SW1 button on the back of the PC board.
2. Press and release the SW1 button.

What Happens

- All Codes Cleared: Every custom user code stored in system memory is permanently deleted.
- Master Code Reset: Returns to the factory default of 1234.
- Relay Time Reset: Returns to the default 5 seconds.

Lock Protection

Install a diode or varistor across the strike terminals to suppress back EMF and protect the relay and controller.

Installation Date _____

Serial Number _____