



Carefree Security
Access Controls

Heavy Duty – Commercial - Industrial

Fully Sealed Digital Access Keypad

Specially Designed for Electric Door Locking Devices &
Personnel Swing Doors

SINGLE OR UP TO **1000** PERSONAL CODE NUMBERS

Installation and programming instructions



Model 1277

Owner's Manual

MODEL 1277

With a Single Relay and Automatic
Voltage Detection from 10 to 30 volts AC or DC

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MADE IN THE USA

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Introduction

Carefree-Security self-contained keypads are fully sealed and are ideal for adverse environmental conditions. The electronics are encapsulated in epoxy, making the keypad impervious to moisture.

Carefree-Security keypads are a digital keyless entry system designed for access control applications. The keypad is a sealed black polymer keyboard. The keyboard has bright, easy to read graphics. Single, or up to 1000 entry codes from 2 to 6 digits in length, can be programmed.

The single Bi-Color LED (Red or Green) indicates the status of the keypad system. RED indicates that the keypad is in program mode or in a "lockout" condition. Green indicates that access has been granted to the Relay. When entering your code number, an audible tone indicates that your input was received. If a wrong number is entered during programming, pressing the * (Star) key will end programming.

IMPORTANT- PLEASE NOTE

Please read all instructions before installing or programing this keypad. It is very important to apply and follow the procedures described herein. Your keypad represents a new generation of high quality, high reliability keypad technology that is simple to use and operate.

FEATURES:

- Easily Programmable Keypad
- Up to 1000 Personal Code Numbers
- 2 to 6 digit entry code length
- Microprocessor based memory
- Lightning and Surge protection built in
- 1 Bi-Color LED status indicator
- Audio tone buzzer is shipped as a standard feature but not required. Units can be ordered without this feature
- Built in timer for remote exit door switch or fire access key switch
- Latching Relay to hold gates or doors open
- Powered from a 10 Volt to 30 Volt AC or DC source
- Vandal resistant Security Screws
- Fully sealed black polymer push button keyboard
- No code number loss with a power failure (EPROM MEMORY)
- Timed anti-pass back and keypad lockout

TECHNICAL NOTES:

- The user of the keypad has up to 30 seconds to key in their entry code.
- All digits of the personal code number must be entered followed by the # key. If the # key is not pressed, with correct code entry, activation will be sent within ½ second after the last correct access code / digit is pressed.
- To avoid ESD (electrostatic discharge) interfering with the operation of the keypad, ground the housing.
- Lightning and Surge Protection is built into the keypad. However, if you install a keypad in an area where lightning can damage the keypad, make sure to install a Model 306, Lightning & Surge Protector for extra protection. There is no warranty if the keypad is damaged by lightning, static electricity or high voltage surges.
- The keypad automatically senses voltage from 10 to 30 volts AC or DC. Current draw is 10 mA typical and 150 mA max.
- Output of the Relay is Form C, 5 Amps.
- The keypad has a built in timer for remote exit. A door exit switch can be wired from the keypad to a Normally Open push button exit switch or to a fire access key switch to provide “codeless” free exit or entry to authorized personnel.
- The latching relay code (TOGGLE Mode) will hold gates or doors open. Too many incorrect code number entries will cause a lockout condition and the Red LED will blink six (6) times or more.
- This keypad has 10-30 volt, AC or DC, automatic detection. Typical access control voltages are 12 to 24 volts. Connecting directly to 110-120 volts single phase will damage the keypad and void the warranty. Make sure a step-down transformer is used with a secondary voltage of 10-30 volts.
- **When supplying DC power – Polarity Must Be Observed.**

Warning

All illustrations and operating instructions should be read before the unit is connected to power and operated. The installation and operating instructions should be retained for future reference. All operating and user instructions should be followed. The housing should be mounted to a wall or as recommended by the manufacturer. The unit should be connected to a power supply only of the type described in the operating instructions or as marked on the unit. Regular testing by entering any valid Personal Code Numbers must be done to ensure proper operation. Make sure that all necessary requirements, such as the proper placing of operating, warning and safety signs are followed in accordance with all Local, State and Federal regulations to ensure the safety and well-being of all those within the area of operation of this unit. Install this unit only on a gate or door operator with an automatic force reverse action.



Please refer to your Gate or Door Operating Manual for correct wiring of this keypad to your equipment.

Model 1277 Keypad Exterior

Faceplate attaches with two (2) #8-32 x 1/2" Pin-In TORX Security Screws
Use a T-15 TORX Tamper Resistant Driver to fasten them.

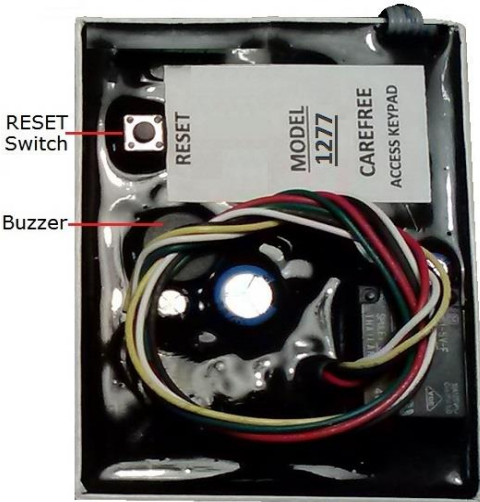


The Bi-Color LED (Red or Green) indicates the status of the keypad system. RED indicates that the keypad is in Program Mode or in a "Lockout" condition. Green indicates that access has been granted to the Relay.

If a wrong key is entered, press the * key. This will RESET the Keypad so that you may re-enter the correct code.

Installer view behind keypad

The Exit Switch outputs on the Gray/Yellow wire pair.



The Relay outputs on Color-Coded Wires:
White = COM Green = NO Yellow = NC
Red & Black = Power In (10 to 30V, AC/DC)

Operating Parameters

Input Voltage	10 to 30 Volts AC or DC
Current Draw	
Standby	10 mA @ 12 VDC
Relay Active	100 mA @ 12 VDC
Relay Output	5A @ 28 VDC FORM C COM - NO - NC
Remote Timed Exit Switch	outputs on pair of Gray/Yellow wires
Temp Rating	-20° F to +140° F -29° C to +60° C -40° F (-40° C) with Optional Built-In Heater

Programming Instructions

After each programming step you must wait for the Red LED to finish blinking.

You can abort programming at any time by Pressing the * key. The Red LED will turn off.

If an invalid code number is entered or access is denied, the keypad security lockout timer is activated and the Red LED will blink 6 times; you must wait for the Red LED to stop blinking before re-entering the correct code number.

To Program a Single Personal Code Number, or up to 1,000 Personal Code Numbers:

Step 1: Enter your programming number or the factory programming number 1-2-3-4-5-6 and Press the * key. The Red LED will turn on. You are now in Programming Mode.

Step 2: Enter your new personal code numbers from two (2) to six (6) digits and Press the # key. The Red LED will blink one (1) time.

Step 3: Enter the Relay Activation Time Code from the chart below. Upon each successful code entry, the Red LED will blink two (2) times.

Relay Activation Time Code Chart

Entering 2 # will activate the Relay for ½ second
Entering 4 # will activate the Relay for 1 second
Entering 6 # will activate the Relay for 3 seconds
Entering 8 # will activate the Relay for 5 seconds
Entering 10 # will activate the Relay for 7 seconds
Entering 12 # will activate the Relay for 15 seconds
Entering 14 # will activate the Relay for 30 seconds
Entering 16 # will TOGGLE the Relay (Latching Mode)

Step 4: When all personal code numbers have been entered, Press the * key to exit programming.

The Red LED will turn off.

To enter multiple code numbers, repeat Steps 2 and 3 above before continuing on to Step 4.

The keypad will search its memory for available space and automatically store the new code number entered.

If, when entering Step 3, a code number is entered and the Red LED blinks fast followed by two (2) slow blinks, this means that the code number has already been entered into the keypad memory. You will need to enter a different code number.

NOTE:

A Relay Activation Time Code is REQUIRED during the initial programming of a code. If unsure, set the Relay to 4# (1 second).

RECORD YOUR NEW PERSONAL CODE NUMBERS ON THE LAST PAGE OF THIS MANUAL IN THE PERSONAL CODE NUMBER CHART

Example to program a single code number:

Press 1-2-3-4-5-6 and the * key. The Red LED will turn on.

Enter your code number - a two (2) to six (6) digit number, then Press the # key.

The Red LED will blink one (1) time.

Press 4 # for Relay 1. The Red LED will blink two (2) times.

Press the * key. The Red LED will turn off.

To operate the gate or door, enter your code number and Press the # key.

The Green LED will turn on for 1 second.

To remove or delete a single personal code number:

Step 1: To delete a code number, enter your program number or the factory program number 1, 2, 3, 4, 5, 6 and Press the * key. The Red LED will turn on.

Step 2: Enter the personal code number to be deleted and Press the # key. The Red LED will blink one (1) time.

Step 3: Press 20 # and the keypad will search its memory to delete the code number that you entered. When complete, the Red LED will blink three (3) times.

Step 4: Press the * key. The Red LED will turn off.

To delete multiple code numbers repeat steps 2 and 3 before continuing on to Step 4.

Erasing all personal code numbers:

*****Warning: Performing this command will remove all personal code numbers from the memory.**

Step 1: Enter your program number or the factory program number 1, 2, 3, 4, 5, 6 and Press the * key. The Red LED will turn on.

Step 2: Press 00 # The Red LED will blink one (1) time.

Step 3: Press 00099 # to erase the memory. This may take up to 10 seconds.

When complete, the Red LED will blink two (2) times.

Step 4: Press the * key. The Red LED will turn off.

Change factory programming code (1, 2, 3, 4, 5, 6) to a new programming code:

For security reasons you should change the factory program number 1, 2, 3, 4, 5, 6 to a new program number from 2 to 6 digits. Or you can use the factory program number 1, 2, 3, 4, 5, 6 (not recommended) to enter into a programming mode. Your new program number or factory program number allows you to enter into a programming mode only.

To program a new programming code number, follow the next 4 steps below. Write the new program number in the space provided below. Remember, after you have programmed your new program number 1, 2, 3, 4, 5, 6 will no longer work.

Step 1: Enter factory program number 1, 2, 3, 4, 5, 6 and Press the * key. The Red LED will turn on.

Step 2: Enter your new program number from 2 to 6 digits and Press the # key. The Red LED will blink one (1) time.

Step 3: Press 22 # The Red LED will blink two (2) times.

Step 4: Press the * key The Red LED will turn off.

Write your new program number here: _____

Keep This In A Safe Place

Protect the keypad from lightning & power surges:

If you install a keypad that is in an area where lightning can damage a keypad, make sure the keypad metal housing is grounded. Install a Model 306 Lighting & Surge Protector. There is no warranty if the keypad is damaged due to lightning static electricity or high voltage power surges. The Model 306 will help to protect the electronics in the keypad and is very easy to install. Do not ground the housing to the fence, fence post or pedestal. Ground the keypad metal housing to an electrical ground (operator) or install a ground rod.

Optional Model 306 - Lightning and Surge Protector



Instantaneous Response Time / 600 Watts @ 39 Volts / 15kV 60 Amp Surge Suppression
Installs inside the keypad metal housing

Trouble Shooting: If Lightning or a High Voltage Surge strikes the keypad the microprocessor may go into a self-protect mode causing one or more of the following conditions:

The Red LED may stay on. The Green LED may stay on (relay latched)

The buzzer may not produce an audible tone. Some of the keys on the keypad may or may not work and/or the keypad may not function at all.

To reset the keypad, disconnect the power to the keypad and wait at least two (2) minutes, then re- connect the power to the keypad and enter your code number. If the keypad still does not work, then a high voltage surge has damaged the microprocessor. Return the keypad to Carefree-Security for evaluation.

Two (2) Year Limited Warranty

This Carefree-Security product is warranted against defects in material and workmanship for up to two (2) years from the date of shipment. Warranty expiration date is tied into the serial number which is wrapped around the internal box on the product, removal of this label will void the warranty. Carefree-Security, Inc., at its option either repairs or replaces defective products that have been returned to Carefree-Security, Inc., with freight prepaid back to customer when shipped to Carefree-Security within the warranty period.

The foregoing warranty shall not apply to defects resulting from abuse, misuse, accident, alteration, neglect, normal wear and tear, lightning and high voltage surges and acts of God or unauthorized repair or installation. Carefree-Security, Inc., has the right of final determination as to the existence and cause of the defect.

THE WARRANTY SET FORTH IS EXCLUSIVE AND NO OTHER WARRANTY, WHETHER WRITTEN, ORAL OR EXPRESSED WILL BE VALID. CAREFREE-SECURITY, INC., SPECIFICALLY DISCLAIMS THE IMPLIED WARRANTIES OR MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. The remedies provided herein are Buyer's sole and exclusive remedies. In no event shall Carefree-Security, Inc., be liable for direct, indirect, special, incidental or consequential damages, (including loss of property, revenue, profit, cost of removal, installation or reinstallation) whether based on contract, tort or any other legal theory.

