

7000 Series Keypad Instruction Sheet

GENERAL DESCRIPTION

7000 Series Keypads provide a momentary voltage output when the user-programmed 4 or 5 digit code is entered. Use this output to arm/disarm alarm systems, trip panic zones, activate a relay to control door locks, shunt bypasses, or operate garage door openers. Eight two digits codes are available expanding the capabilities of this keypad.

SET THE CODE LENGTH

Header H1 selects between a five or four digit code. The keypad is shipped with a jumper in the "C" and "5" position on this header, which sets the keypad for a 5 digit code.

To select a four digit code:

- 1) Remove the circuit board from the keypad
- 2) Locate the Header (H1)
- 3) Remove the small black jumper
- 4) Re-install this jumper on pins "C" and "4"

The jumper must be installed for keypad operation.

SELECTING A CODE

- 1) Locate the five colored programming code wires packed in the plastic parts bag with the mounting hardware.
- 2) Locate the code bank on the circuit board. It has 17 socket positions which are printed on the circuit board.
- 3) Sockets A B C D E represent the five possible digits of the code. Socket A is the first digit, B the second, C the third, D the fourth, and E the fifth.
- 4) Program the first digit of the code by placing one end of a code wire in the A position and the other end in the desired digit. Repeat the process for the remainder of the selected digits. Digits can only be used once.

For a code of 14735, connect the program wires from:

A to 1 B to 4 C to 7 D to 3 E to 5

If selecting a four digit code, "E" is not used.

- 5) Attach the circuit board. Align socket "S2" with the 13 pins on the keypad and carefully press the socket onto the pins.

WIRE CONNECTIONS

Red (+) positive 6-24 VDC supply voltage input. This voltage should be filtered, regulated, uninterrupted and able to supply a minimum of 50mA for the keypad, and 20mA for **each** LED or nite-lite. **Black (-)** negative VDC supply voltage input.

Review the chart on the back page. If your panel is not listed, find the arm/disarm terminals marked "keyswitch". One terminal is the arm/disarm terminal and, in most cases, the other is constant positive or negative voltage. If positive voltage is required, connect the **Blue** wire. If negative voltage is required, connect the **Green** wire.
DO NOT CONNECT BOTH WIRES!

Wire multiple keypads in parallel by connecting LEDs and outputs back to the control panel.

LED CONNECTIONS:

The **Yellow** wire on the LED is negative (-). The other wire on the LED is positive (+). If the other wire is **Red** it is rated 12VDC, **Green** 6VDC or **Black** 24VDC.

MAIN CODE OPERATION

When the correct four or five digit code is entered, the Blue wire switches to a positive (+) level or the Green wire switches to a negative (-) level. The voltage will remain present as long as the last digit of the code is held down. These are transistor outputs not relay contacts. Corby supplies a variety of relays, listed below, to fit most applications.

SECONDARY CODES

Touching two buttons simultaneously can give you up to eight - two digit codes to activate a Corby relay (models 74, 78 or 86). The two digit codes can trip a dialer for panic, shunt a zone, activate a door lock, etc.

SPECIFICATIONS

Input Voltage: 6-24 Volts DC Only
Outputs: Positive or Negative Voltage Driver 300mA MAX
Operating Temp: -18C to 55C (0F to 131F)
Dimensions:
Single gang: 2.75" X 4.5" (53 X 40mm)
Double gang: 4.56" X 4.5" (115 X 114mm)
Heavy Duty: 3.23" X 5.0" (84 X 127mm)
Lock Box: 4.75" X 5.3" (120 X 133mm)
Power Consumption:
Voltage Idle Operating
6V 4mA 14mA
12V 8mA 30mA
24V 21mA 70mA

RELAYS/RELAY MODULES

Use the following relay modules for the main output or a two digit output if dry circuit relay contacts are required:

Model 86: Used for a single zone shunt, activating a door lock, or operating a garage door opener with an LED status.

Model 74: Controls two independent latching shunts with an LED status.

Model 78: Used to trip a dialer or panic zone.

For the main output only:

Model 25: (6 or 12 VDC) momentary relay

Model 22: (12 VDC) latching (on/off) relay

USING TWO-DIGIT CODES

The first digit of the main code is always the first digit of all the two-digit codes. The second digit is selectable and can be any unused digit on the keypad. The keypad and any module must share a common ground connection to operate. The two digit codes **CANNOT** trigger any other device other than those listed.

- 1) Insert the Brown diode code wire (included with the mounting hardware) in the Code Bank socket position that corresponds with the second control button.
- 2) Connect the stranded end of the wire to the positive (+) trigger of the 86, 78 or 74.
- 3) Touching the first button of the main code and the second control button simultaneously will trigger the module.

For Panic operation:

- 1) Insert the Brown diode code wire #70 (included with the mounting hardware) in the selected Code Bank socket.
- 2) Connect the stranded end of the wire to any positive (+) input terminal of your alarm control or digital dialer that is active 24 hours a day. The trigger is 1mA at 12 VDC.
- 3) If momentary relay contacts are required, connect the stranded end of the program wire to the positive trigger input of a Corby Model 78 low-level relay module.

MODEL 7100 CROSS REFERENCE CHART

PANEL TYPE		No. of Wires Required	POWER		ARM/DISARM		PANIC Needs 1 Wire	LEDS			
Manufacturer	Model		RED Wire	BLK Wire	GRN Wire	BLU Wire		RED YEL	RED	GRN YEL	RED
Acron	PAS-1 WC	5	11	10	NC	6	(X1)	3	11	5	11
Alarm Controls	6129	5	1	8	NC	2	(X2)	3	1	4	1
Alarm Controls	6130	5	21	20	NC	22	(X2)	2	21	1	21
Alarm Controls	6131	5	11	16	NC	2	(X2)	3	11	4	11
Ademco	332R/342R	5	16	19	NC	(X3)	(X2)	17	16	19	14
Ademco	4080	5	B5	A20	NC	B4	(X2)	A20	A17	A20	A18
Aritech	CS-200	5	26	1	NC	3	(X2)	1	5	1	4
Caddi	6012	5	15	16	NC	12	5	14	15	13	15
DTI	772	5	15	16	26	NC	(X2)	16	5	16	7
DTI	DS51/52	5	16	15	12	NC	(X2)	15	10	15	8
FBI	642	5	25	24	NC	28	(X2)	27	25	26	25
FBI	1215XL/1213	5	7	20	NC	8	10	23	7	22	7
FBI	1270	6	12	10	NC	11	19	21	14	13	12
FBI	1272	5	25	14	NC	6	8	28	25	24	25
FBI	1290A	5	16	15	NC	6	8	21	16	17	16
FBI	XL1219UL	4	25	26	NC	24	NC	23	25	NC	NC
Franklin	12B	4	(+)	(-)	(X3)	NC	EM	(-)	RL	(-)	GL
Guardware	CU-22	5	29	11	NC	36	20	35	29	34	29
Guardware	CU-66	5	6	34	NC	5	(X2)	2	6	3	6
Micro State	630	5	2	3	4	NC	9	3	5	3	6
Micro State	633	5	2	3	4	NC	11	3	5	3	6
Micro State	643	5	5	7	8	NC	16	9	7	10	7
Moose	MPI-25	5	5	4	NC	8	6	23	5	24	5
Moose	MPI-26	5	15	16	NC	13	14	11	15	12	15
Moose	MPI-50	5	7	4	NC	(X4)	6	23	7	24	7
NAPCO	CCI-5	5	15	24	NC	12	7	11	15	10	15
NAPCO	BB-5	5	9	5	NC	10	18	11	9	12	9
NAPCO	CCI-7	5	26	27	NC	4	(X2)	3	26	2	26
NAPCO	CCI-8	5	31	32	NC	9	20	6	31	7	31
Radionics	3012	4	3	7	NC	(X3)	13	7	6	7	8
Radionics	4012/8012	5	3	26	23	NC	(X1)	26	25	26	31
Securtec	1295	4	6	5	11	NC	NC	12	6	10	6
Securtec	Auditor 11	4	6	5	12	NC	NC	5	13	5	14
Sescoa	2520	5	2	1	NC	3	10	1	4	5	2
Silent Knight	2020	5	4	18	NC	14	25	18	19	18	20
Surgard	CC911/CC912	5	B3	B4	B12	NC	A5	B4	A2	A1	B3
Surgard	SG411/SG411SM	5	B3	B4	B12	NC	A5	B4	A2	A1	B3
Surgard	SG911FA4/Z	5	B3	B4	B6	NC	A18	B4	A15	A14	B3
USP	MC6	5	6	14	NC	5	12	8	6	7	6
USP	MC7	5	9	22	NC	10	(X2)	12	9	11	9
USP	MC4A/MC5A	5	5	11	NC	4	9	7	5	6	5

X1 For panic operation, use a Brown diode code wire #70 (included in the plastic parts bag) to connect a Code Bank Socket to any 24hr loop "input terminal" of the control panel which accepts a positive voltage for activation. Connect the stranded end of the Program Wire to the panel.

X2 Panic operation requires the use of a Model 78 Sensitive Relay Module. Connect a Brown diode code wire #70 between the selected Code Bank Socket and the positive trigger input of the Model 78. Now, use the dry relay contact of the Model 78 to activate the panic circuit of the panel.

X3 Use a Corby Model #25 Model SPDT relay or any other relay with a coil resistance of 100 ohms or more. Connect the black wire of the Model #25 to constant negative (-) and connect the blue wire (+) of the #7100 Decoder Module to the red wire of the #25. Then, connect the normally open contacts of the #25 relay to the keyswitch terminals.

X4 A 1N4001 diode is required in series with the blue wire from the keypad to Terminal #8. The striped side of the diode goes towards the panel.

