DOOR·GARD™

Wiegand
272 Series

Features, Programming, and Wiring Guide

272mp	**272xt**	**272i**	**272wp**
MultiPad™	**XtremePad™**	**Indoor**	**Weatherproof**

MultiPad™

Contemporary design

Illuminated keys*

Indoor\outdoor construction

Weatherproof

XtremePad™

For extremely hostile environments

Waterproof (submersible)

Stainless-steel construction

Corrosion-proof

Solid State Keys

Indoor

Brushed-stainless steel plate

Tactile keys

Single-gang flush-mount

Weatherproof

Machined-aluminum housing

High-durability metal keys with Braille numbers

Fits over standard single-gang electrical box

*w/12vdc input

The Door·Gard Wiegand Series Keypads allow your Wiegand protocol based access control installations to be tailored to your individual needs. Door·Gard Wiegand Series Keypads provide user configurable communications which conform to a variety of standard Wiegand formats.

1

TESTING THE KEYPAD

1. Connect the positive (=) lead of your 5 or 12VDC power supply from the control panel to the terminal (TS1) =V input.

2. Connect the negative (-) lead of your 5 or 12VDC power supply from the control panel to the terminal strip (TS1) -V input.

3. Turn on power supply.

4. Enter Self Test Mode: Press 7890#123456*. The leds will light sequentially, and the sounder will beep 3 times. This tests all 12 keys on the keypad, and veri-fies proper circuit functioning.

<u>NOTE:</u>

The keypad may be programmed in your shop or at the installation site. Programmed information is stored in non-volatile so it will not be lost.

WIEGAND SERIES DEFAULTS

The Door•Gard Wiegand Series keypads are designed for easy installation in a minimum amount of time. The following defaults have been factory pro-grammed.

Master Code (user 1)	1234 *
Standard Options:	
Sounder keypress feedback:	ON
Auto-Entry:(no * key required)	OFF
System Options:	
Yellow LED feedback on keypress:	ON
Red LED :	Enabled
Red LED activates when line is pulled:	Low
Green LED:	Enabled
Green LED activates when line is pulled:	High
Wiegand format:	26 bit

If defaults must be changed or additional functions are desired, please refer to the **PROGRAMMING OPTIONS** chart after you are familiar with the PROGRAMMING section.

2

PROGRAMMING

1. Enter programming mode [1]   <u>Yellow LED</u> [2]
   Press   99 # (master code) *   Flashes slowly
   or press sw1 switch

2. To change master code [3]
   Press   1 # (new master code) *Flashes fast
   Press   (new master code) *   Flashes slowly

3. Exit programming mode
   Press   *   Out

<u>NOTES:</u>

• [1] The Wiegand series Door•Gards are factory pro-grammed with a master code of 1234 *.

• [2] Some Door•Gard products contain a sounder in place of the yellow LED. In these products the flashing is replaced by a beeping.

• [3] The master code is always user 1.

• The master code allows access to the programming mode.

• All codes must be followed by the *.

• Master code may be from 1-6 digits in length, and digits may be repeated.

• If the master code is forgotten or does not seem to be working, momentarily push SW1 to enter programming mode and begin at step 2 above (see wiring diagram for location).

• If the yellow LED lights solid while in program ming mode an error has occurred. Press * to clear (yellow LED should flash) and start over from step 2 or 3 above.

• Access code programming is done at the control panel

• If LED does not change states, a " pull-up " resistor may be required. Using a 10kΩ ¼w resistor, connect one end to V+ @ the control panel and to Led @ the control panel.

• All Wiegand control panels are not the same, Contact IEI for an updated list of qualified Wiegand panels that have been tested and are known to be compatible with IEI's Wiegand 272 series keypads.

6057130 REV 1.1

PROGRAMMING OPTIONS CHART

If the pre-programmed default values must be changed
or additional functions are desired, the following options may be programmed.

1. Enter programming mode	Press	99 # (master code) *	
2. Auto entry on (no * required)	Press	30 # 2 # 1 # * *	
3. Auto entry off (* required)	Press	30 # 2 # 0 # * *	
4. Sounder feedback on keypress	Press	30 # 0 # 1 # * *	
5. Sounder feedback on keypress off	Press	30 # 0 # 0 # * *	
6. LED options			
Green LED activates when line is pulled low	Press	31 # 4 # 0 # * *	
Green LED activates when line is pulled high	Press	31 # 4 # 1 # * *	
Red LED activates when line is pulled low	Press	31 # 2 # 0 # * *	
Red LED activates when line is pulled high	Press	31 # 2 # 1 # * *	
Green LED enable	Press	31 # 3 # 1 # * *	
Green LED disabled	Press	31 # 3 # 0 # * *	
Red LED enable	Press	31 # 1 # 1 # * *	
Red LED disabled	Press	31 # 1 # 0 # * *	
Yellow LED feedback on keypress enabled	Press	31 # 0 # 1 # * *	
Yellow LED feedback on keypress disabled	Press	31 # 0 # 0 # * *	
7. Erase keypad memory and reset defaults	Press	46 # 00000 # 00000 # * *	
8. Change master code	Press	1 # code * code *	
9. Select Wiegand Format (from table below)	Press	63 # 0 # format # * *	
10. Set Site Number	Press	64 # 0 # (site number) # * *	
11. Set Group ID	Press	65 # 0 # (group id number) # * *	
12. Exit Program Mode	Press	*	

    The Wiegand format, group ID, and site number is specified by the host access control system and should be determined prior to programming your Door◆Gard Wiegand keypad.

    There are 8 different wiegand formats supported by the Door◆Gard Wiegand Series keypads. The wiegand format is set through command 63 and must be selected prior to programming the Site Number or Group ID. The user can set up the Site Number through command 64. The exact range for a valid Site Number is determined by the Wiegand format which is why it must be selected first.

    Some of the Wiegand formats have a Group ID embedded in their frames. Command 65 is used to set up the Group IDs. As with the Site Numbers, the valid ranges for Group ID entries are based on the Wiegand format. If the yellow led glows steady after entering this command, there are two possible problems. Either the current format does not support Group IDs or the ID entered is invalid. A table showing the valid ranges for Site Numbers and Group IDs based on the various formats is presented below.

Format Table

Format	Frame Size	PINs	Sites	Groups
1	26 bits	65536	256	N/A
2	28 bits	32768	256	N/A
3	29 bits	524288	256	N/A
4	30 bits	65536	256	16
5	31 bits	65536	256	32
6	32 bits	65536	2048	64
7	36 bits	1048576	256	N/A
8	29 bits	524288	256	N/A

272mp

Current Draw
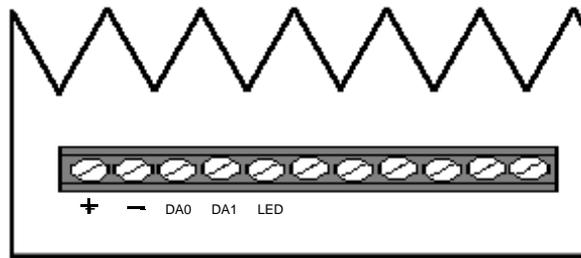@ 5VDC - 13.2ma MAX
@12VDC- 38.2ma MAX

SW1
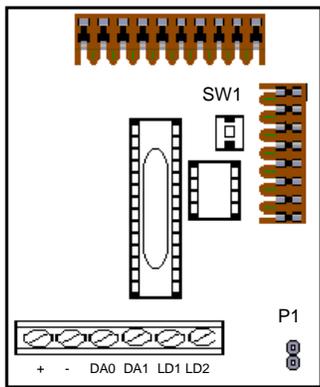
272MP- No backlighting if Weigand panel power outputs 5v to Weigand reader. A separate (12vdc) supply will be needed with a common ground between keypad and Weigand panel.

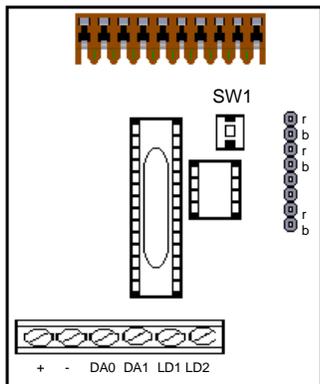P1- On = Backlit enabled (12vdc only)
      Off = Backlit disabled

P1

+ - DA0 DA1 LD1 LD2

To Control Panel

BASIC WIEGAND CONTROL PANEL

+   - DA0 DA1 LED

272i

Current Draw
@ 5VDC - 4.6ma MAX
@12VDC- 11.4ma MAX

SW1

r
b
r
b   red LED
r
b   green LED
r
b
r   yellow LED
b

+ - DA0 DA1 LD1 LD2

To Control Panel

272xt

red
black
white\yellow
black\white

P1

P2

SW1

+   - DA0 DA1 LED
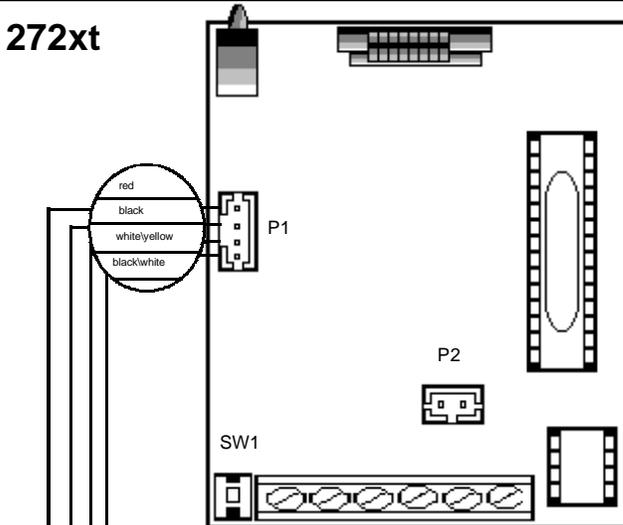
To Control Panel

If LED does not change states, a " pull-up "

resistor may be required. Using a 10kΩ ¼w

resistor, connect one end to V+ and the other end

to Led @ the control panel.

If this product does not seem to operate properly, please call our Technical Department toll free at 1-800-343- 9502 (781-821-5566) Monday -Friday 8:00 am-7:00 pm EST.

We understand your time is valuble, and we know that calling our Technical Support Department will ensure that you'll make the most profit possible with your IEI product. Thank you for your purchase. We appreciate your business.
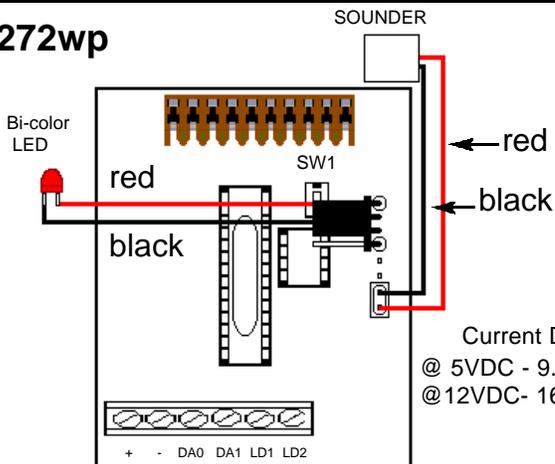
International Electronics,Inc.(IEI) warrants its products to be free from defects in material and workmanship, when they have been installed in accordance with the manufacturer's instructions, and have not been modified or tampered with. IEI does not assume any responsibility for damage or injury to person or property due to improper care, storage handling, abuse, misuse, normal wear and tear, or an act of God.

IEI's sole responsibility is limited to the repair (at IEI's option) the replacement of the defective product or part when sent to IEI's facility (freight and insurance charges prepaid), after obtaining IEI's Return Merchandise Authorization. IEI will not be liable to the purchaser or any one else for incidental or consequential damages arising from any defect in, or malfunction of, it's products.

This warranty shall expire two years after shipping date for DOOR-GARD keypads. Except as stated above, IEI makes no warranties, either express or implied, as to any matter whatsoever, including, without limitation to, the condition of its products, their merchantability, or fitness for any particular.

272wp

SOUNDER

Bi-color LED

red

red

black

red

black

SW1

Current Draw
@ 5VDC - 9.9ma MAX
@12VDC- 16.9ma MAX

+ - DA0 DA1 LD1 LD2

To Control Panel