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.
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 verifies proper circuit functioning.

NOTE:
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 programmed.

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.

PROGRAMMING

1. Enter programming mode 1
   Yellow LED 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

NOTES:
• 1 The Wiegand series Door•Gards are factory programmed 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 programming 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 IIEI for an updated list of qualified Wiegand panels that have been tested and are known to be compatible with IIEI'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

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

6057130 REV 1.1
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.

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 for 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.