Introduction
The EntryLux MkII door access unit utilises full epoxy sealing for the electronics together with a cast metal housing with security screw access to provide a safe and secure keypad entry or proximity tag entry system.

It can be used as a standalone unit or can be interfaced to our EntryPro network controller using the Wiegand 26 output port.

Specification
Working Voltage.......................9V ~ 28V DC
Unlock current.......................up to 3A
Reading distance.......................3 ~ 8cm (depending on tag type)
RF Type ..................................EM 125kHz
Capacity: .................................2000 users
Working temperature ...............-25°C to +60°C
Humidity range .......................10% to 90% RH
Dimensions..........................120 x 80 x 25mm

Factory Defaults

<table>
<thead>
<tr>
<th>Programming PIN</th>
<th>999999</th>
</tr>
</thead>
<tbody>
<tr>
<td>Door Open Mode</td>
<td>Keytag or Passcode</td>
</tr>
<tr>
<td>Unlock Time</td>
<td>5 seconds</td>
</tr>
<tr>
<td>Magnetic Alarm</td>
<td>Off</td>
</tr>
<tr>
<td>Alarm Delay</td>
<td>1 minute</td>
</tr>
</tbody>
</table>
## Connecting the *EntryLux* MkII System

<table>
<thead>
<tr>
<th>Name</th>
<th>Colour</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 BELL_A</td>
<td>Pink</td>
<td>Doorbell</td>
</tr>
<tr>
<td>2 BELL_B</td>
<td>Pale Blue</td>
<td>Doorbell</td>
</tr>
<tr>
<td>3 D0</td>
<td>Green</td>
<td>WG26 output D0</td>
</tr>
<tr>
<td>4 D1</td>
<td>White</td>
<td>WG26 output D1</td>
</tr>
<tr>
<td>5 ALARM</td>
<td>Grey</td>
<td>Alarm input –ve (connect alarm +ve to POWER)</td>
</tr>
<tr>
<td>6 OPEN</td>
<td>Yellow</td>
<td>Exit button input (connect other end of NO exit switch to GND)</td>
</tr>
<tr>
<td>7 D_IN</td>
<td>Brown</td>
<td>Door contact NO magnetic switch (connect other end to GND)</td>
</tr>
<tr>
<td>8 POWER</td>
<td>Red</td>
<td>+9V to +28V PSU</td>
</tr>
<tr>
<td>9 GND</td>
<td>Black</td>
<td>PSU –ve</td>
</tr>
<tr>
<td>10 NO</td>
<td>Dark Blue</td>
<td>Lock relay normally open</td>
</tr>
<tr>
<td>11 COM</td>
<td>Purple</td>
<td>Lock relay Common</td>
</tr>
<tr>
<td>12 NC</td>
<td>Orange</td>
<td>Lock relay normally closed</td>
</tr>
<tr>
<td>13 GND2</td>
<td>Cable Screen</td>
<td>Connect to GND</td>
</tr>
</tbody>
</table>

1. Connect 12V DC power to wires 8 & 9, observing correct polarity
2. Connect the GND signal to the COM connector (Purple)
3. Connect the +ve side of the lock to +12V from the keypad (Red)
   a. For Fail-Safe locks, connect –ve of lock to NC (Orange)
   b. For Fail-Secure locks, connect –ve of lock to NO (Blue)
4. Connect the normally open lock output from a Door Entry System or PTE exit switch (or both) to GND and OPEN (Yellow)
5. If a door bell unit is required, connect to pins marked BELL. These form a high resistance switch (around 150 ohms) so you may need a relay to activate the bell.
Configuring the System

A. Entering & Exiting System Configuration mode
B. Changing the master password
C. Add new Tag (automatic numbering)
D. Add new Tag (defined numbering)
E. Add new Passcode user
F. Select Door Open mode
G. Set Door Open Time
H. Delete Tag (using Tag)
I. Delete Tag (using ID number)
J. Delete All Tags
K. Restore Factory Settings
L. Alarm Delay Time
M. Door Contact Setting
N. Example Wiring

A: Entering System Configuration Mode

1. Normal operation mode (slow Red flash)
2. Press [*] key, then 6-key master password (default is 999999), then [#]
3. Now in system configuration mode (Green flash, then solid Red)
4. In this mode you can perform all the configurations you need, without exiting the mode
5. To exit configuration press [*] key again (slow Red flash)

B: Changing the Master Password

1. Enter system configuration mode (see A above)
2. Press (solid Orange)
3. Enter new 6 to 8 digit password (eg. 325761), then press #
4. Re-enter the new 6 to 8 digit password, then press #
5. New master password is accepted (flash Green, then solid Red)
6. Press [*] to exit configuration mode (slow Red flash)
7. You can now use the new code to enter configuration mode
C: Add New Tag User (Automatic numbering)
1. Enter system configuration mode (see A above)
2. Press 1 (solid Orange)
3. Pass each Tag over the keypad (flash Green then back to Orange)
4. Press [#] when finished (solid Red)
5. Press [*] to exit configuration mode (slow Red flash)

D: Add New Tag User (Defined numbering)
1. Enter system configuration mode (see A above)
2. Press 1 (solid Orange)
3. Enter Tag ID number (must be unique) and press [#]
4. Pass Tag over the keypad (flash Green then back to Orange)
5. Repeat 3 and 4 for each Tag you require to add
6. Press [#] when finished (solid Red)
7. Press [*] to exit configuration mode (slow Red flash)

E: Add New Passcode User
1. Enter system configuration mode (see A above)
2. Press 1 (solid Orange)
3. Press the unique User ID (0 – 2000) then [#]
4. Press the 4-digit password then [#] (flash Green then back to Orange)
5. Repeat steps 3 & 4 for each password you want to add
6. Press [#] when finished (solid Red)
7. Press [*] to exit configuration mode (slow Red flash)

F: Select Door Open mode
1. Enter system configuration mode (see A above)
2. Press 3 (solid Orange)
3. Press 0 to select Tag entry
4. OR Press 1 to select Tag AND Passcode entry (both required)
5. OR Press 2 to select Tag OR Passcode entry (this is the factory default)
6. Press [#] to confirm (solid Red)
7. Press [*] to exit configuration mode (slow Red flash)
G: Set Door Open Time
1. Enter system configuration mode (see A above)
2. Press ④ (solid Orange)
3. Press the number of seconds (0..99) you want the lock to stay on for
4. Press [#] to confirm (solid Red)
5. Press [*] to exit configuration mode (slow Red flash)

H: Delete Tag (Using Tag)
1. Enter system configuration mode (see A above)
2. Press ② (solid Orange)
3. Pass each Tag you want to delete over the keypad
4. Press [#] to confirm (solid Red)
5. Press [*] to exit configuration mode (slow Red flash)

I: Delete Tag (Using ID Number)
1. Enter system configuration mode (see A above)
2. Press ② (solid Orange)
3. Press the ID number to delete, then press [#]
4. Repeat step 3 for each Tag you want to delete
5. Press [#] to confirm (solid Red)
6. Press [*] to exit configuration mode (slow Red flash)

J: Delete All Tags
1. Enter system configuration mode (see A above)
2. Press ② (solid Orange)
3. Press ① ① ① ①, then press [#]
4. Press [*] to exit configuration mode (slow Red flash)
K: Restore Factory Settings
1. Remove power from the Keypad
2. Press [#] and keep holding it
3. Replace the power to the Keypad - still holding down [#]
4. 2 beeps
5. Remove power and release [#]
6. Replace power
7. Keypad is reset and Programming PIN is reset to 999999

L: Alarm Delay Time
1. Enter system configuration mode (see A above)
2. Press 5 (solid Orange)
3. Select delay in seconds (0, 1, 2 or 3)
4. Press [#] to confirm (solid Red)
5. Press [*] to exit configuration mode (slow Red flash)

M: Door Contact Setting
1. Enter system configuration mode (see A above)
2. To Disable door contacts, press 6 then press 0
3. To Enable door contacts, press 6 then press 1
4. Press [#] to confirm (solid Red)
5. Press [*] to exit configuration mode (slow Red flash)
6. With the contacts enabled, the keypad will emit an alarm sound after the Alarm delay time if the door has not been closed properly after use. Also, if the door is forced open an alarm will sound after 20 seconds and the alarm relay output will be activated
**N: Example Wiring**

Every installation is different, so check carefully if you are using a Fail-Safe or Fail-Secure lock, whether you are connecting to multiple Exit Switches (eg. A push button exit switch and a direct feed from a door intercom unit), etc.

**Fail-Secure (Locked if no power)**

- Connect the Negative side of the lock to ground
- Connect the Positive side of lock to NO (Blue)
- Connect the COM (Purple) to +12V (Red Wire)

**Fail-Safe (Open if no power)**

- Connect the Negative side of the lock to ground
- Connect the Positive side of lock to NC (Orange)
- Connect the COM (Purple) to +12V (Red wire)

**Exit Switch**

- Use the Normally-Open connections on the switch
- Connect one side to OPEN (Yellow)
- Connect the other side to Ground

**Break Glass Unit (with Fail-Safe locks)**

- Use the Normally-Closed connections in the break glass
- Feed the positive side of the lock to one connection
- Connect the other to the NO (Blue) wire of keypad