# Level 0 Description Table

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| **Input Name** | **Input Type** | **Description** |
| Battery +9VDC | Power | A standard 9V battery can be used as a backup in case of power outage. |
| Wall Wart +9VDC | Power | In normal operation, the nocLock uses either a 9VDC AC adapter with a current rating of at lease 1500mA. |
| Button 1 | Digital | Button 1 will indicate that the user intends to enter a sequence of knocks. It is also used by the user to tell end a knock sequence. |
| Button 2 | Digital | Button 2 will indicate that the user intends to write a new knock sequence. It is also used to navigate through the new knock write sequence. |
| Button 3 | Digital | Button 3 will indicate the the user intends to completely erase all stored knocks and start over. This is intended for debugging purposes as a back door to start over. This button will not be easily accessable. |
| Knock Sense | Analog | This analog voltage will indicate when a knock has happened and will include some protection circuitry to reduce any voltages higher than the tolerance of the microcontroller. |
| Programmer | Data | The programmer input is a connection to another programmer, to allow the microcontroller to be programmed. This input will be composed of several lines. |
| **Output Name** | **Output Type** | **Description** |
| LED 1 (high current) | Digital | This will control a LED of a single color to indicate where the user is in the program and it is used for visual ques for confirmation or denial. |
| LED 2 (High Current) | Digital | This will control a LED of a single color to indicate where the user is in the program and it is used for visual ques for confirmation or denial. |
| Unlock Signal (High Current) | Digital | The unlock signal will most likely be driving an inductive load that requireslarge amounts of current to operate. |

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