Printer Responses to Button Presses - Obsolete

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| --- | --- | --- |
| **User Action** | **Machine Action** | **Main LED Status** |
| Quick press of power button (while machine is off) | Machine turns on - main processor, internal lights & fans turn on. | LED turns on |
| Quick press of power button (while machine is on but not printing) | No change | No change |
| Quick press of power button (while machine is on and printing) | E-Stop. Print pauses, motors stop. Internal lights & fans remain on. | LED Blinks Continuously |
| 2-second press of power button | Printer resets | LED Blinks 3 times, then remains on |
| 5 second press of power button | Printer powers off - main processor, internal lights, fans & motors power off | LED Blinks 3 times, then turns off |
| Start printing | Printing | LED glows - slowly increasing & then decreasing in intensity |

Printer Responses to Button Presses - Revised

## Button Actions Recognized by Printer

Only two button actions are recognized by the software:

* Quick Press (<1 sec)
* Long Press (1sec)

## LED States Displayed by Printer

There are only four states that the LED displays:

* **OFF**
* **ON** - LED is on at full intensity and solid (not blinking)
* **Glowing** - the LED alternates between increasing and decreasing intensity
* **Blinking** - the LED alternates between on and off, at a .25 second interval

# Printer Actions to Button Presses During Different States

## Printer State: Printer OFF

LED State: LED OFF

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| --- | --- |
| **User Input** | **Printer Result** |
| Quick Button Press | No Action |
| Long Button Press | Main processor is powered ON, 12V and 5V rails powered on. LED is turned on solid. |

## Printer State: Printer ON, Not Printing

LED State: LED ON

|  |  |
| --- | --- |
| **User Input** | **Printer Result** |
| Quick Button Press | Extruder is homed in X/Y axes. LED remains on. |
| Long Button Press | Main processor is powered off, 12V and 5V rails powered off, LED is turned off. |

## Printer State: Printer ON, Printing

LED State: LED glowing

|  |  |
| --- | --- |
| **User Input** | **Printer Result** |
| Quick Button Press | Print pauses. LED turns to blinking. |
| Long Button Press | Print is canceled. LED changes to on solid. |

## Printer State: Printer ON, Paused

LED State: LED blinking

|  |  |
| --- | --- |
| **User Input** | **Printer Result** |
| Quick Button Press | Print resumes. LED turns to glowing. |
| Long Button Press | Print is canceled. LED changes to on solid. |