

Mike's Brew Shop Fermentation System Project - Feature #3

The state of the output pin becomes HIGH (5V) when configuring the pin as output.

10/19/2020 09:08 PM - Michel Gauvin

| | | | |
|---|---------------|------------------------|------------|
| Status: | Closed | Start date: | 10/19/2020 |
| Priority: | Normal | Due date: | |
| Assignee: | Michel Gauvin | % Done: | 100% |
| Category: | | Estimated time: | 0.00 hour |
| Target version: | | Spent time: | 0.00 hour |
| Description | | | |
| The relay are changing state at boot, which is unwanted behavior. Try the following: https://forum.arduino.cc/index.php?topic=568603.0 So you're saying that setting them low turns the relay off - it just doesn't happen immediately when your sketch runs? That's expected, because during the time right after a reset, the bootloader runs, and during that time, the pins are INPUT. If the relay board has them connected to the gate of a mosfet (not unreasonable) the pins are floating and will pick up noise from the environment, potentially going high. To prevent this, use a pulldown resistor (10k should be fine, but really anything within an order of magnitude of that is fine) between the relay pins and ground, this will hold the pin in a defined state when it's not being driven. | | | |

Associated revisions

Revision 9721f808 - 10/21/2020 04:18 PM - Michel Gauvin

Output stay LOW when configuring it refs #3-2.

History

#1 - 10/20/2020 09:43 AM - Michel Gauvin

- Subject changed from *Test the state of the relay at boot.* to *The state of the output pin becomes HIGH (5V) when configuring the pin as output.*

#2 - 10/21/2020 04:15 PM - Michel Gauvin

- Status changed from *New* to *Closed*

- % Done changed from *0* to *100*

Applied the following solution.

The solution that mitigated the above glitch in my case (ATTiny85 / Digispark Board) was, as Edgar Bonet pointed out above, going through the INPUT_PULLUP phase:

```
pinMode(ch2, INPUT_PULLUP);
```

```
pinMode(ch2, OUTPUT);
```

```
digitalWrite(ch2, HIGH);
```

<https://arduino.stackexchange.com/questions/66654/what-is-the-default-setting-for-a-digital-output-pin>