Outputs

Filtered Air

Bag

PS In

O2 S

Sol Rel

Flow in

Sol IN

PS Out

Flow Out

Sol Out

O2 O2 O2

O2 PSW

Sol O2

Relay Driver

4 Digital Outputs

Arduino Mega

Arduino mega

Inputs

Filtered Air

Bag

PS In

O2 S

Sol Rel

Flow in

Sol IN

PS Out

Sol O2

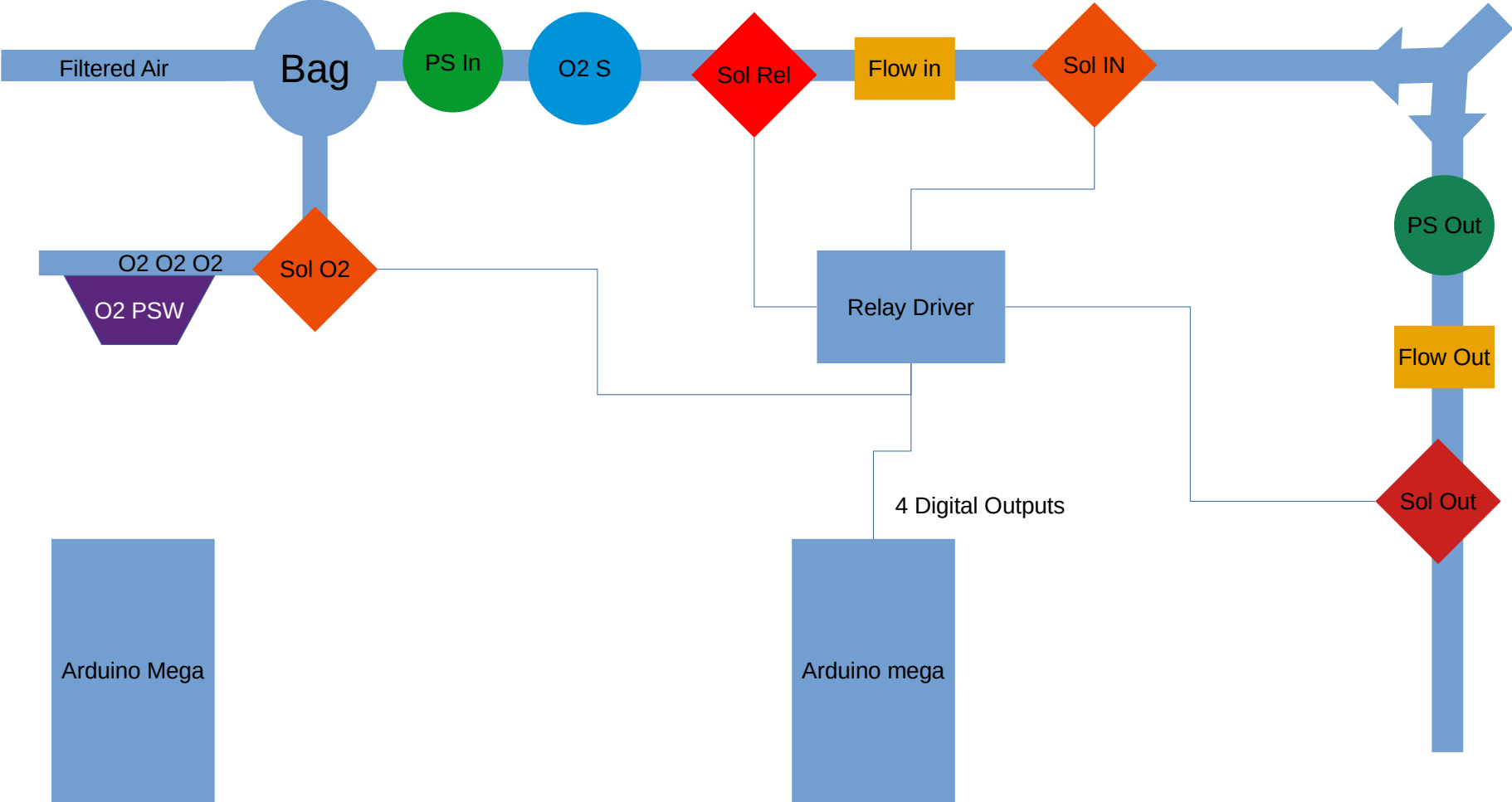O2 O2 O2
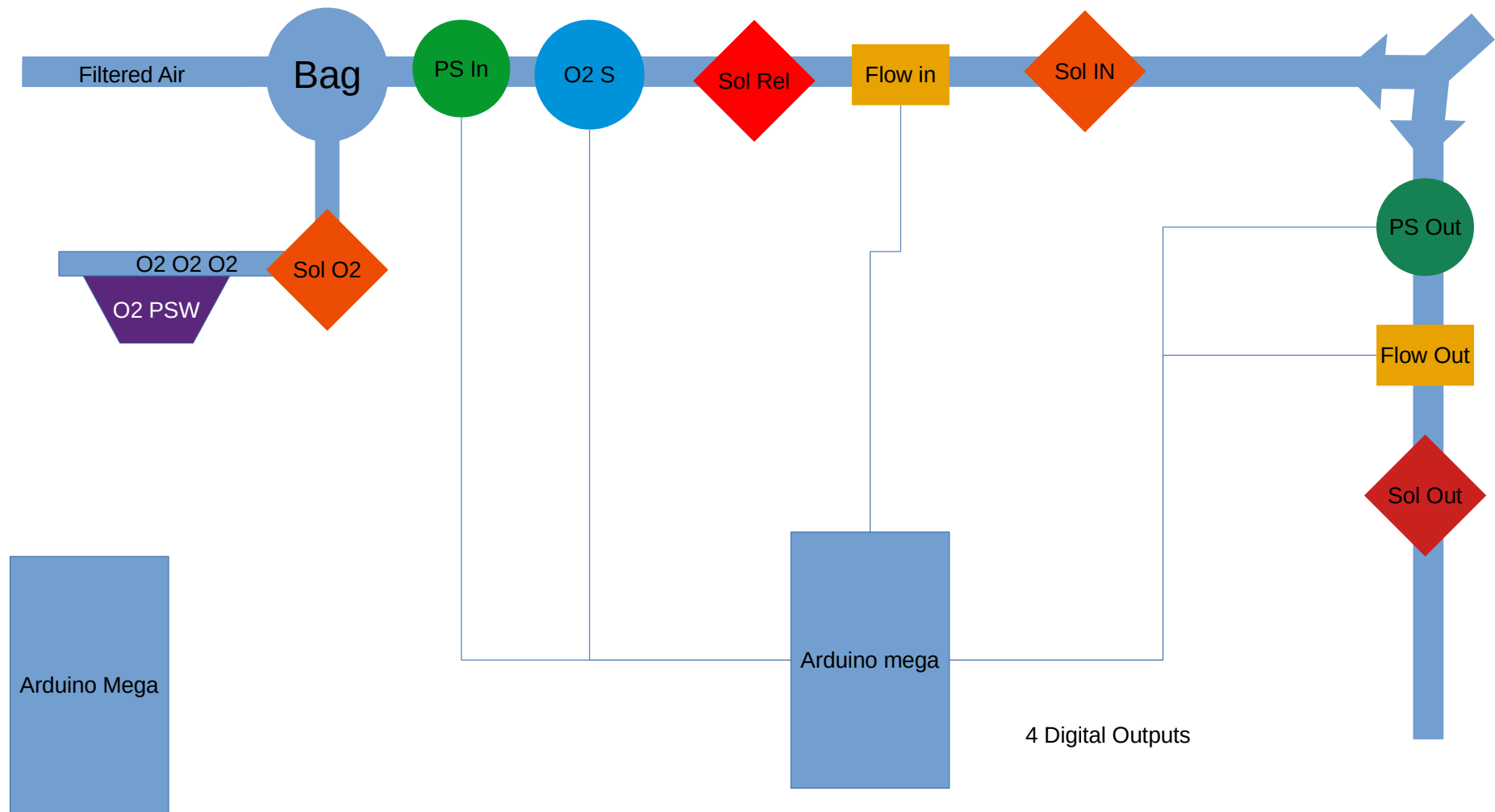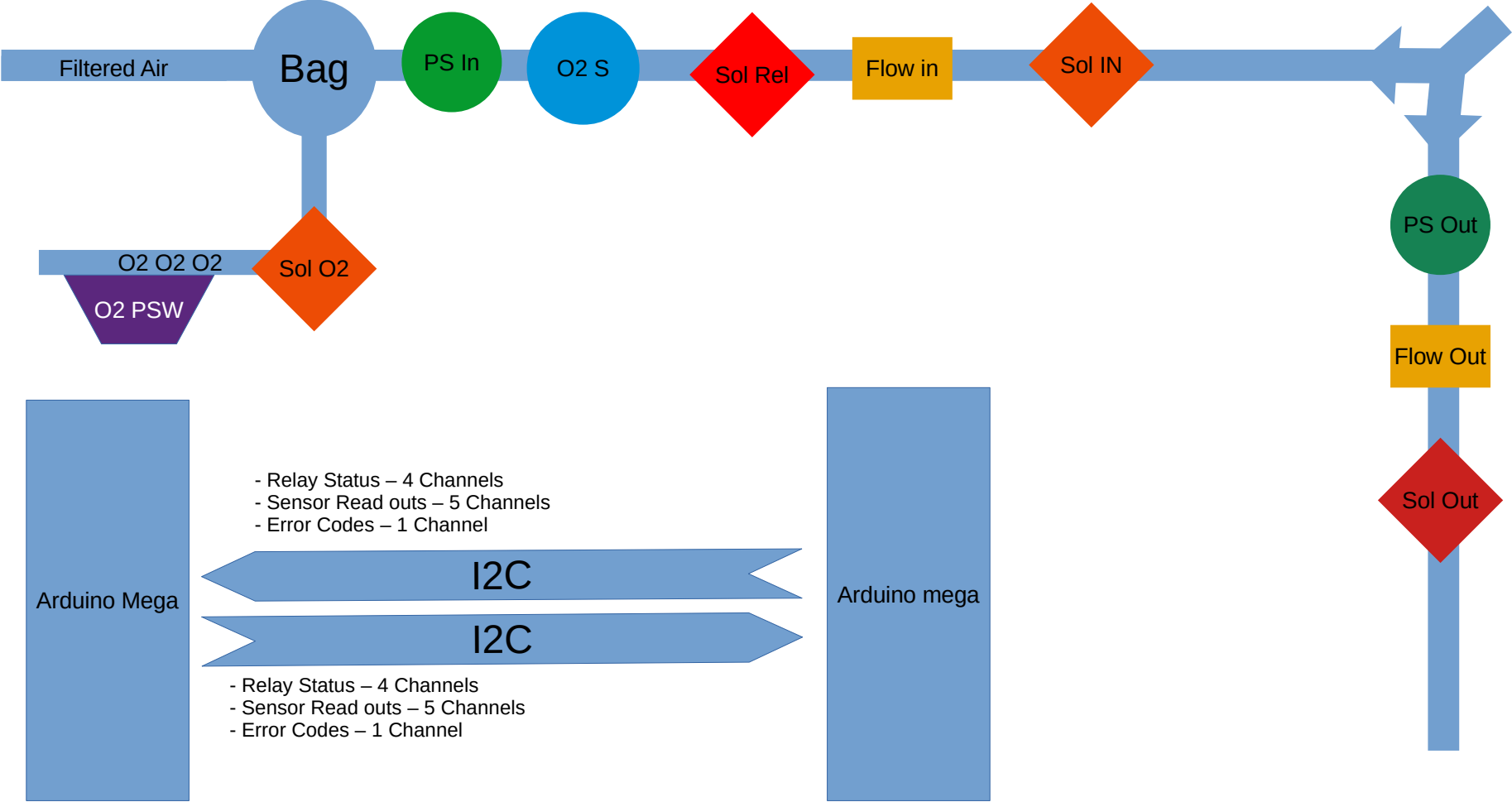
O2 PSW

Flow Out
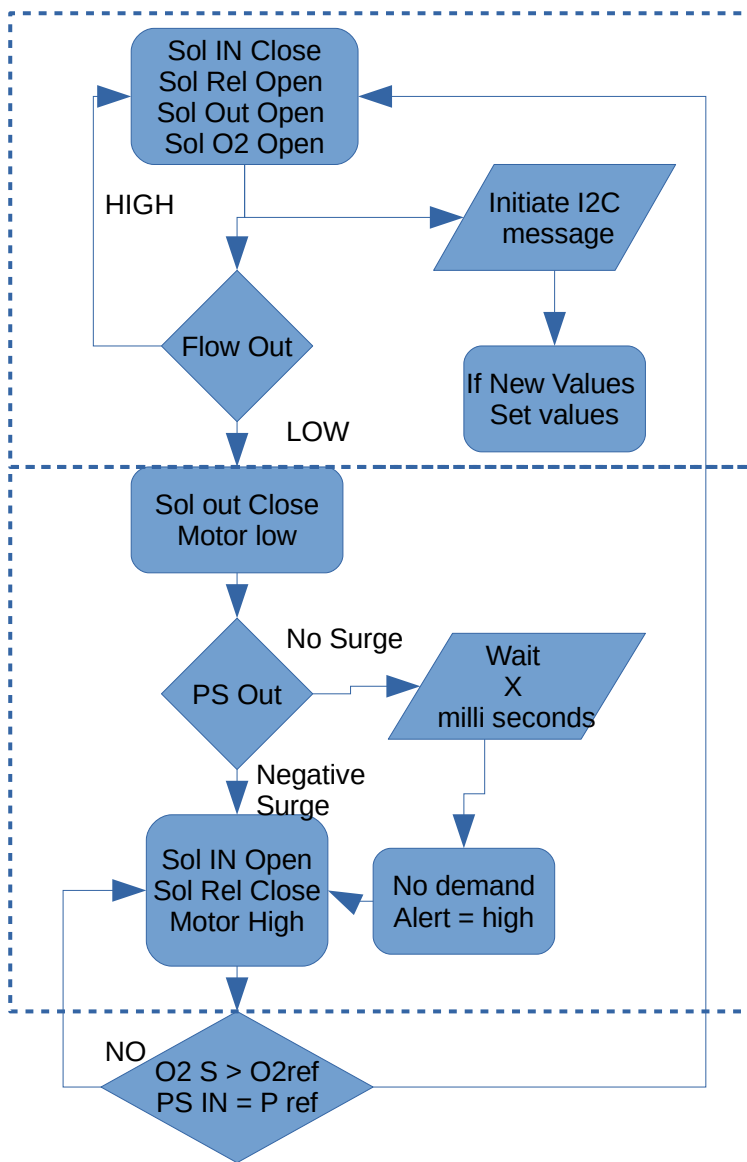
Sol Out

Arduino Mega

Arduino mega

4 Digital Outputs

Inputs

- Process

- Close Sol IN
- Open Sol Out
- If Flow Out becomes low
- Close Sol Out
- If PS Out surges → Open Sol IN → Motor High
- If PS IN reaches Pref → Close Sol IN → Open Sol Out → Motor Low
- Send Values (PS IN, PS Out, Flow In , Flow Out) Via I2C. If any values received edit P ref, Wait time
-

- Exhale

- Inhale