Teensy microcontroller

Raspberry pi zero w

Atmega2560

Blower min requirements

Min pressure 40 to 50 cm of H2O

Min flow generation 80 L/Min

ATmega8A datasheet

https://www.arduino.cc/en/software

https://sourceforge.net/projects/winavr/

https://mag.ebmpapst.com/en/industries/medical/quiet-breathing-aid-for-medical-use_131 33/

https://www.eeweb.com/cpap-machine-reference-design/

https://github.com/jcl5m1/ventilator

https://robu.in/product/hx710b-air-pressure-0-40kpa-sensor-module/?gclid=Cj0KCQjw16 KFBhCgARlsALB0g8lLqu_-l6iXwviBqKeellVNVyP0YgGn9BBdrz6T82Mf0thldh4vliYaAq4g EALw_wcB

https://youtu.be/h11bRE-4GV4

https://www.verical.com/pd/honeywell-flow-sensor-awm720p1-228901?offerID=35634579 &gclid=CjwKCAjwqliFBhAHEiwANg9szqTO5r_Ns6h3lViMhKuj6xJfm13xoaDFVPrsL4rpKW 2zTw1Rv5iVaRoCd9QQAvD_BwE

https://www.lefoo.com/products/t2000-pressure-transmitter?gclid=CjwKCAjwqliFBhAHEiwANg9szsfKJ5kzddQfnjdRZZ9ElsWqhaxv8TcrRLA8SXKd3qjDCYMGSzKqMxoCJqwQAvDBwE

https://www.mouser.in/new/delta-electronics/delta-high-pressure-blower-fans/

http://Wonsmart.com

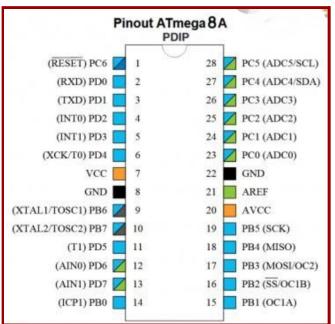
http://Globalsources.com

http://www.wonsmart.com.cn/ws7040al-24-v200-15655817190455959.html?gclid=Cj0KCQjw--GFBhDeARIsACH_kdbQlJz5rvUXKu_h1iYWjCO2k1xlpBY_cRX9y800qvZR-vziZCZgLjsaAlazEALwwcB

https://www.digikey.com/en/products/detail/delta-electronics/BFN0724SS-01/10244643

https://www.mouser.in/ProductDetail/Delta-Electronics/BFN0724SS-01?qs=PzGy0jfpSMt1 eECFvv3USw%3D%3D

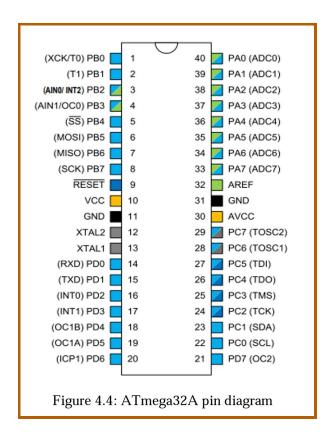




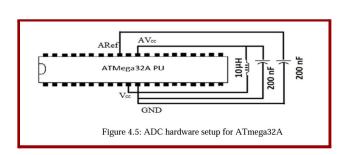
Arduino as avr programmer

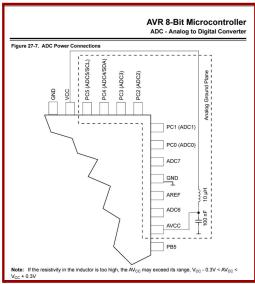
Arduino	Pin	ATmega8	ATmega32
10	RESET	1 PC6	9
11	MOSI	17 PB3	6 PB5
12	MISO	18 PB4	7 PB6
13	SCK	19 PB5	8 PB7
5v	VCC	7	10
GND	GND	8	11

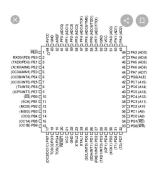
10 micro farad capacitor +ve to Arduino RESET



ADC hardware







Arduino	Pin	ATmega128
10	RESET	20
11	MOSI	12 PB2
12	MISO	13 PB3
13	SCK	11 PB1
5v	VCC	21 52
GND	GND	22 53 63