



HUMAN RESPIRATION CARBON DIOXIDE MEASUREMENT DEVICE FOR CARDIORESPIRATORY ASSESSMENT (PI2018700454 | LY2018000805)

Product Features

- Light-weight
- IR sensor to capture CO₂
- User-friendly interface
- Using ARDUINO as microcontroller
- Suitable for children and adults
- LCD to display trend and severity index
- Data storage (16 GB)
- PC based via USB – Ideal for Clinical use

Needs

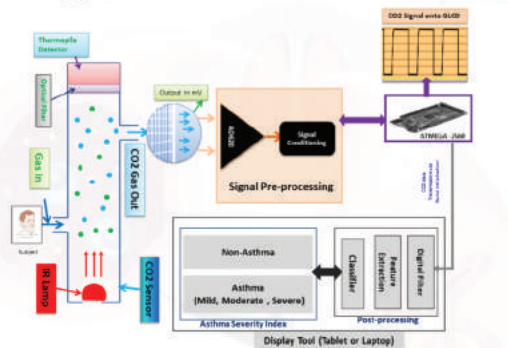
- Demand of respiratory CO₂ measurement device - to increase by \$ 0.616 billion by the year 2020 (Transparent Market Research, 201
- Asthma - predominant disease among cardiorespiratory disorders.
- Asthma affects 10-13% population in Malaysia (NHMS, 2011).
- Existing device - expensive, bulky & used as qualitative assessment tool.
- Existing device not applicable for children or ill patients.



Benefits Per Cost

- Non-invasive, light weight, and small.
- Safer, easier, faster and more economical.
- No prior knowledge needed to operate.
- Can be used by individual and health care professionals.
- Low maintenance and service cost.

Approach



Competitors

- Medical and monitoring systems that available in market.



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