RESPO: a smart module for respiratory health monitoring

APPLICATION

RESPO is a smart module for respiratory health monitoring. This product targets to monitor respiratory health and diagnose respiratory illness such as COPD, asthma by analyzing the exhaled air.

COMPANY NAME	TECHNOLOGY READINESS LEVEL (TRL)	INTELLECTUAL PROPERTY
Intisen Technology Pvt Ltd	**TRL: 3**	

FOUNDER'S NAME

Mitradip Bhattacharjee

PROBLEM ADDRESSED

- No on-site detection/ regular monitoring device respiratory health
- No large-scale deployable solution for respiratory health
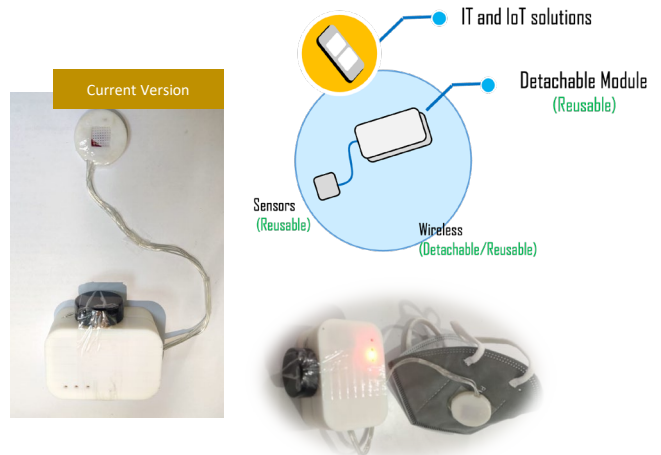- Respiratory and COPD diagnosis facilities are centralized

ABOUT THE TECHNOLOGY

The smart module have multi-sensory capability and it can detect respiratory health by analysing the exhaled air. It is attachable to existing commercial mask and it also contain a detachable module having disposable sensors and circuit. This module can can convert an existing mask into a smart masks. Further, this module is also attachable with different headgears. Secondly, the entire solution will also come with a mobile and web application. This will be able to provide more functionality such as mass-monitoring. The initial product of the smart module and module will contain a temperature sensor for breath and body temperature monitoring, a humidity sensor for the respiratory health monitoring and a gas and VOC sensor - to begin with, a NO sensor will be attached. Further, by analyzing the peak sensor signal occurrence from humidity sensor, the system will be able to detect the sneezing, cough which are symptoms of influenza-like-illness.

FUNDS RAISED/ACHIEVEMENTS

- DPIIT Registered Company
- Incubated at IICE

PRODUCT IMAGE

Current Version

IT and IoT solutions

Detachable Module (Reusable)

Sensors (Reusable)

Wireless (Detachable/Reusable)

USP

- Multi-sensory
- Portable
- Attachable
- Compatible with Mobile and WiFi
- Affordable
- Embedded Sensing

END USERS / CUSTOMERS

Health centers, Hospitals, Chronic respiratory patients