CHECK YOUR AIR QUALITY WITH PORTABLE PM2.5 MONITOR

HOW IS THE AIR QUALITY IN YOUR COUNTRY?

America

Mexico, Columbia, Brazil are in the unhealthy stage.

Asia and India

Thailand, India and China are in the range between unhealthy to hazadous stage.

Europe

Italy, Turkey and Ukraine are in the unhealthy stage

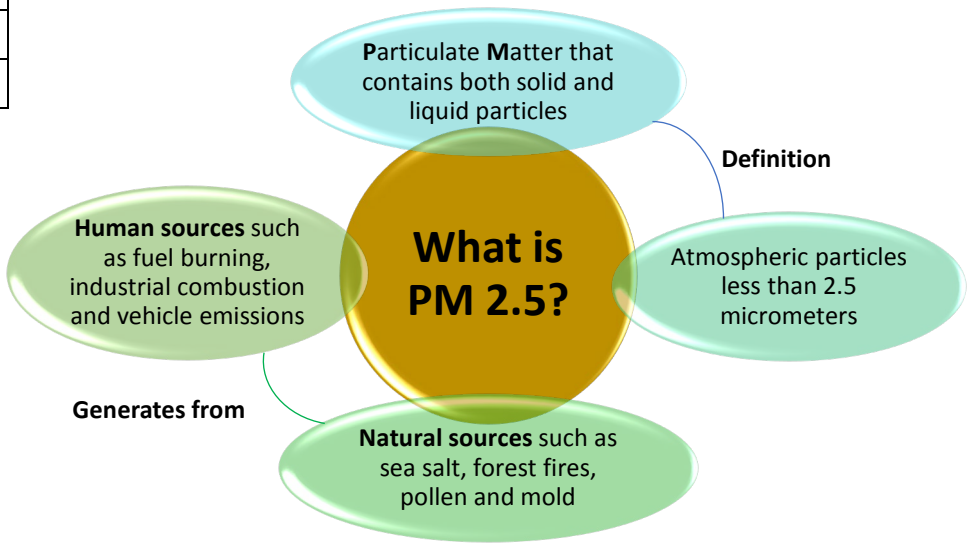
Source: World Air Quality Index (http://aqicn.org/map/)

Color codes

Green	Good
Yellow	Moderate
Orange	Unhealthy for sensitive groups
Red	Unhealthy
Purple	Very Unhealthy
Magenta	Hazardous

Want to know how is the air quality in your country? Check it out from the World Air Quality Index site as follows:

https://aqicn.org/map/world/#@g/5.1993/8.6133/2z



RENESAS
BIG IDEAS FOR EVERY SPACE

PROBLEMS CAUSED BY PM2.5

Health issues, such as throat, nose, eyes irritation in the short term*	Lung cancer increases by 15-27% when PM2.5 air concentrations increased by 10 µg/m3*	Exposure to PM pollution decrease lifespan by 8.6 months*	A lack of healthy workforce reduces economic productivity, causing high economic costs

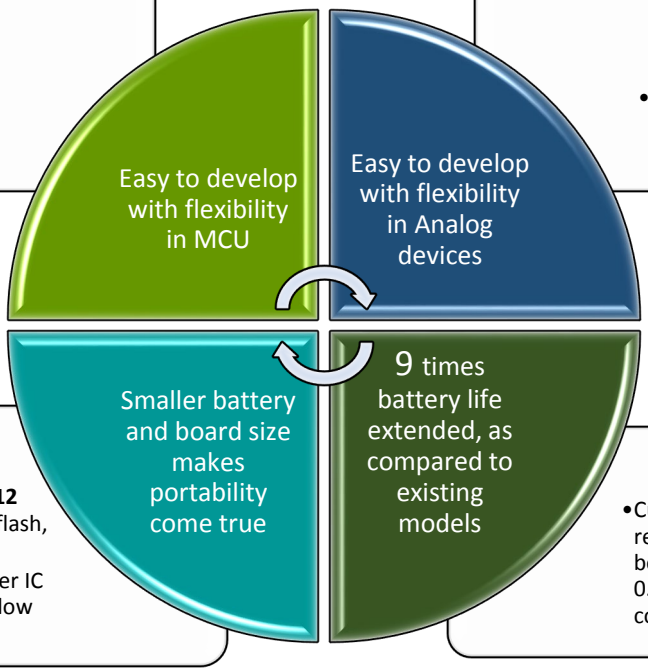
*Source: https://foodthesis.com/pm-2-5-health-effects-and-remedies/

PROTECT YOURSELF WITH PORTABLE PM 2.5 MONITOR

RENESAS QUICK SOLUTION MAKES DEVELOPMENT EASIER WITH THE FOLLOWING BENEFITS

- Shorten development time as users could start development with exisitng system. **RL78/L12** MCU supports 3 types of LCD drivng method - Capacitor Split, Internal Voltage Boosting and Resistence Division.

- DC-DC converter IC **(ISL97656)** has flexible switching frequency that could be tuned to suit user's system accordingly.
- Battery Charger IC **(ISL6294)** is easy to design as it could operate by itself with built in FET, diode, etc..

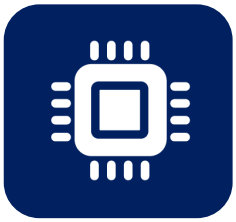


- Reduce board size with **RL78/L12** various built in functions (data flash, oscilation circuit etc..)
- Battery size is reduced as charger IC **(ISL6294)** could operate with a low power consumption system.

- Current to drive LCD panel is reduced greatly due to **RL78/L12** best-in-class standby current of 0.64uA that reduces power consumption.

CLICK ON THE ICONS TO FIND OUT MORE

Home page



Circuit Diagram

Video