

Abstract

In the age of technology, people work in poor indoor air quality, Harm physical health gradually being valued by everyone, because of the age of technology changes people's lifestyle, so that people working in a confined living space or office space, good air quality so that people feel comfortable and improve work efficiency.

For people pay attention to indoor air quality, regardless of clean air in the home and office has been quite extensive. Photoelectric sensors can be used to monitor air quality, intelligent, air quality information for display by the user's screen, and then using the adjusted control operation of the air purifier can remove particles in the air, such as hair, dust and fumes, so that the best results of the air quality.

This research is the use of special photo smart dust sensors to monitor air quality. The combined monitor and Arduino control board and control program, when the value exceeds dust sensors monitor indoor quality standard value, start air clean machine, if the value is lower than the indoor quality standard value, stop air clean machine. There by controlling the air cleaners start and stop operation, improve indoor air quality and energy conservation. Good air quality can relax the body and strengthen the immune system, and improve people's health.