

A Booming Demand For CO2 Monitors, ZyAura Comes Up With The Best Technology

An outstanding IR technology expert starts on CO2 Monitor manufacturing

As the fact of higher CO2 (Carbon Dioxide) emission threatens human health can't be ignored, worldwide serious concern has been evoked. Hence, CO2 detectors are primarily used in various indoor areas. Following this market trend, ZyAura (www.zyaura.com) announces CO2 Monitor with IR-SoC technology release this year, which caters for the growing demands and offers an effective solution for OEM and ODM applications. This instrument accurately keeps track of concentration on Carbon Dioxide which ensures more comfortable, secure and healthier indoor space for people.

Growing concern for carbon dioxide emission

The large emission of Carbon Dioxide not only affects global ecology, but represents the hazards to human in daily life. Especially in closed environments, people face this health risk at the office, school, station, exhibition, restaurant, hospital and factory.

In terms of the Standard of The American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE), if the indoor CO2 levels rise above the 700 parts per million (ppm) differentials with 15 cfm/person in office spaces, occupants may perceive the "stale" air containing objectionable body odors. It would be worse that people feel acutely discomfort, dizzy, nauseated, headache and languishing over 1000 ppm of CO2 concentration, comparing with typical outdoor air range from 300 to 500 ppm in public places. In addition, U.S Environmental Protection Agency points out increased levels of CO2 deteriorate student learning ability in school, diminish efficiency of staff at work and affect sleeping quality. More reports show; the high possibility of reaching over 3000 ppm of CO2 concentration in the narrow space of the vehicle puts people at risk for drowsy driving. "Sick building syndrome" also has a correlation with excess CO2 emission in tight crowd building. It leads to short and long-term health problems like asthma, respiratory tract infection and disease, allergic reactions, nasal congestion and fatigue etc.

Accordingly, governments worldwide started taking actions on living environments improvement, the Kyoto Protocol to the United Nations Framework Convention on Climate Change stresses the urgent need to reduce 20% of CO2 emission by 2012. The California state legislature also approved a bill to cut greenhouse gas emissions 25% by 2020. More countries, US, Australia, Canada, Japan, South Korea, Sweden, Singapore and Norway authorities also actively establish air quality control policy and guidelines for closed public places, public transportation system, hospital and school.

Advanced & Cost-effective CO2 monitors with IR-SoC technology released

To reach the goal of CO2 emission reduction and better ventilation, CO2 detectors have become important and advanced devices in the market recently. ZyAura, a leading expert of IR sensing technology for OEM and ODM measurement devices supply, successfully implements CO2

monitor manufacturing this year.

Received CE certification, this instrument and modules with an alarm mode would be suitable for a variety of applications including HVAC (Heating, Ventilation and Air-condition), IAQ (In-Door Air Quality), Factory Management, Safety, Farming,(and) Food Processing and other industries.

ZyAura CO2 Monitor is able to inform the Carbon Dioxide gas levels in the range of 0 to 3000 ppm (ZG106 model) & 0 to 10,000ppm (ZG106A-M model) and the immediate ventilation rate. Its memory capacity is sufficient for a 24-hour period of data accumulation, and the last record is automatically reminded as well.

In terms of the built-in NDIR (Non-dispersive infrared) probe responds very well to CO2, it provides great sensitivity and strong long-term stability. In particular, an in-house ASIC design brings the ZG106 series an extremely low parts count and competitive price. More excellent features like equipped ambient temperature (0 to 50) reading system with accuracy of ± 1 and adjustable alarms can be set to the ASHRAE limit of 1000 ppm.

ZyAura CO2 Monitor reverses the view of “a large apparatus in size and weight”. Its state of art LCD display design, small-size, portable, easy to operate features provide excellent value to customers. Even modules perfectly fit various equipment and machineries for OEM applications.

About ZyAura (www.zyaura.com)

As one of branches to a world-class **Infrared Technology-oriented** thermometer manufacturer-Radiant Innovation Inc. ZyAura OEM and ODM gas measurement products are efficient manufactured under ISO9001:2000 quality system management and gained CE approvals (TUV EMC EN61326). All products widely applied in industry, agriculture, medicine, hygiene and environmental protection.

To Meet ZyAura

With such a great CO2 monitor released this year, ZyAura is going to participate worldwide trade shows to seek more cooperation plans. Please welcome to visit ZyAura at Hong Kong Electronics Fairs in spring and autumn, Taipei International Electronics Autumn Show and MEDICA 2008 in Düsseldorf.

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<http://www.epa.gov/iaq/pubs/hpguide.html>

<http://www.medicinenet.com/script/main/art.asp?articlekey=21707>

http://www.education-world.com/a_issues/issues177.shtml

<http://www.neahin.org/programs/environmental/ejbrochure.html>

http://www.ehs.iupui.edu/ehs/indus_hyg_IAQ.asp

<http://app.nea.gov.sg/cms/htdocs/article.asp?pid=1424>

<http://www.air-care.com.sg/iaq-guidelines.html>

http://www.euro.who.int/Document/AIQ/IAQ_mtgrep_Bonn_Oct06.pdf

<http://www.iaq.gov.hk/tables.html>

http://www.health.state.pa.us/pdf/hpa/epi/revised_indoorair.pdf

<http://www.indoorair.org.tw/page3-1.htm>