



MIMOS Air and Land Monitoring System (Mi-ALAM)

Physical monitoring and management of air quality are vital for environmental sustainability. Sensory solutions can be employed to measure atmospheric natural and emitted hazardous gases. MIMOS Mi-ALAM provides real-time in-situ physical parameter measurement and management by combining rugged sensors and smart devices in a unified system.

Overview

MIMOS Mi-ALAM is a unified solution of a combination of in-situ gas sensors, the Web and smart device applications to enable real-time and safe monitoring of air quality. Mi-ALAM can also be utilised to monitor emitted hazardous gases from soil (landfill). With Mi-ALAM, information on critical environmental parameters can be provided in real-time to users hence promoting efficient operation by reducing labour dependencies and increasing productivity.

Features

Mi-ALAM comprises the following features:

■ Robust and Reliable for Outdoor Usage

Mi-ALAM utilises MIMOS Mi-Sensor platforms and products that can withstand harsh outdoor environmental conditions and meet IP65 standard. Mi-ALAM can be incorporated into MIMOS Mi-MESA platform or used as a standalone solution.

■ Real-Time Data Measurement

Mi-ALAM offers in-situ, real-time data measurement with remote monitoring capabilities via its comprehensive sensor management system.

■ Wireless Communications

Environment information is transmitted via wireless communications using MIMOS Mi-Porta Mote (wireless transmitter/receiver), MIMOS Mi-Porta Router (extension) and MIMOS Mi-MESA (wireless gateway).

Technology Benefits

The main impacts of Mi-ALAM are:

■ Easy Access and User Friendly Interface

With Internet connectivity, the Mi-ALAM web application makes it possible for users to remotely monitor and access data on their desktops or smart devices and use its user-friendly web interface for data visualisation and analysis.

■ Productivity Improvement

Wireless communications allow the system to be deployed in remote areas and significantly minimises manual workforce activities, reduces labour dependencies and improves monitoring integrity for accurate and effective decision making

■ High Scalability

The system utilises open platform and modular design that makes it cost effective for users to expand the system according to operation needs.

Technology Summary

Mi-ALAM

A unified solution to provide information on critical environmental parameters in real-time to users hence promoting improved yield and quality and increased productivity.

Solutions

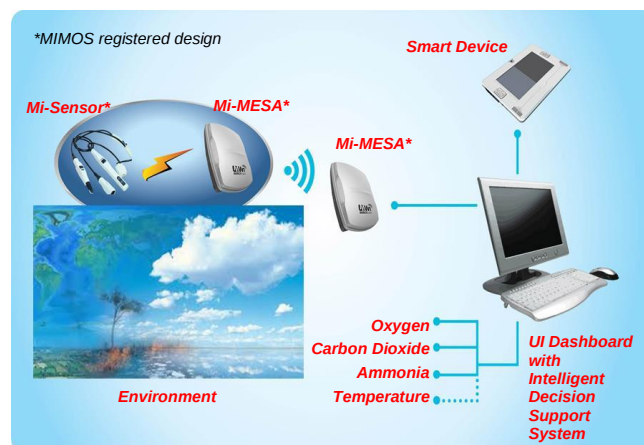
- Mi-ALAM_HAZARD: A monitoring solution for hazardous environments

Features

- Robust and reliable for outdoor usage
- Real-time data measurement
- Wireless communications

Technology Benefits

- Easy access and user friendly interface
- Productivity Improvement
- High scalability



MIMOS Mi-ALAM system architecture

Communications

Mi-ALAM_HAZARD Communications

Mi-Porta Master 1.0
Mi-Porta Slave 1.0
Mi-Porta Mote 1.0
Mi-Porta Router 2.0
Mi-MESA
Mi-Porta USB Dongle*
Mi-Porta USB-UART*

*Future Release

Sensors

Mi-ALAM_HAZARD Sensors

Mi-Sensor Tmini 1.0
Mi-Sensor T 1.0
Mi-Sensor TpH 1.0
Mi-Sensor TpH 1.1*
Mi-Sensor T-EC*
Mi-Sensor DO 1.0*

*Future Release

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