

Low Cost Oxygen Monitor (LCOM)

Introduction

Oxygen monitoring in stack emission is required to ensure efficient combustion of fuel, to minimize heat loss and to minimize emissions leading to a cleaner environment. Low Cost Oxygen Monitor (LCOM) has been designed and developed for oxygen monitoring in oil fired boilers.

The system is useful for measuring the oxygen percentage in stack gas monitoring (upto 350°C) which in turn gives combustion efficiency of oil-fired boilers. It is used in oil fired boilers to monitor the combustion efficiency & CO emission and can also be used to monitor the stack gas (temperature below 350°C).



Application

- This technology is of particularly relevant and affordable for medium and large-scale industries and commercial establishments such as IT parks where the number of monitoring nodes can be more than 256 and can be used to reduce the energy consumption and evaluations of energy efficient equipment.
- This product help improving efficiency of combustion of oil-fired boilers and reducing the environmental pollution.

Features

- Measures oxygen percentage in stack gas monitoring (upto 350°C) which in turn gives combustion efficiency of oil-fired boilers.
- Monitor stack gas with temperature below 350°C.

Status

Field tested.

For further information please contact

Director
CSIR - Central Scientific Instruments Organisation
Sector-30 C, Chandigarh-160030
Email: director@csio.res.in