NSA-3080 Continuous Emission Monitor

Features

Employs Shimadzu's unique ratio non-dispersive infrared method that compensates the fluctuations of light sources and detectors, thus ensuring highly stage measurement.

- Incorporates an easy-to-maintain, thin-profile cubicle that ensures ease of daily inspections.
- Provided with an analyzer in control of each function, such as the auto calibration, remote calibration, probe purge, and operation processing functions of the unit.



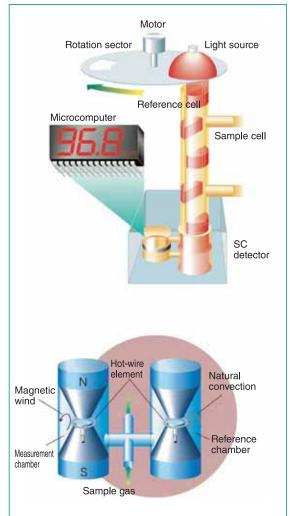
NSA-3080

Overview (Technical principles, actions, etc.)

Emissions from boilers and incinerators contain NOx, SO2, CO, CO2, and O₂. For the purpose of combustion monitoring and control for the prevention of air pollution, the concentration of these components must be monitored continuously. The NSA-3080 is Shimadzu's gas measurement equipment that monitors stationary sources of emissions. The equipment is based on Shimadzu's unique infrared gas analyzer of ratio photometry type built into a compact and easy-to-maintain cubicle together with a sampling system.

Measurement Principle

Molecules, such as NO and SO₂, absorbs infrared ravs with particular wavelengths. The infrared gas analyzer utilizes this characteristic phenomenon to make measurement. Ratio photometry is a method of measuring the concentration of samples while maintaining the sensitivity of measurement constant with the ratio compensation of comparison and measurement signals. O2 is measured by using a character that oxygen is attracted to magnetic fields with ease, when a magnetic wind is generated and detected by the heat ray element of the analyzer.



NSA-3080 Measurement Principle

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**Note: This publication introduces examples of technologies and products believed useful towards solving environmental and energy issues. In no way does it constitute guarantees concerning their transfer or sale,

such as Boilers, and Garbage Processing Plants

Water

Energy saving/Energy recovery

Energy storage/Energy creation

New energy

Other