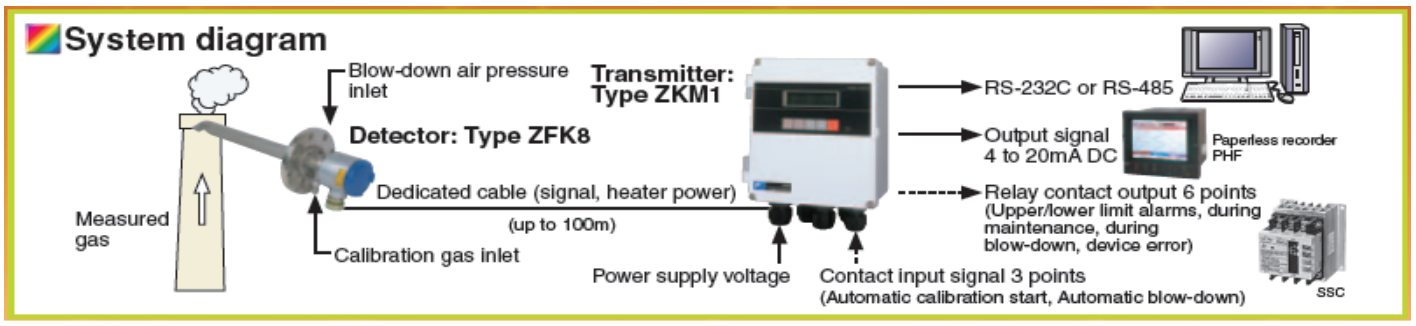
Fuel Saving With Oxygen Gas Analyzers!

ENERGY SAVING AND ENVIRONMENTAL FRIENDLY

Fuji's Zirconia oxygen gas analyzers are widely used; not only in industries of high energy consumption, such as steel, power, petroleum/petrochemical, ceramics, paper/pulp, food, and textile industries, but also in various combustion facilities, such as garbage incinerators and medium-to-small sized boilers, as combustion controllers, achieving a significant energy saving effect. The oxygen concentration control ensures complete combustion, thus reducing CO_2, SOx, and NOx emissions and helping prevent global warming and air pollution.

About:

- The zirconia oxygen analyzer makes use of the oxygen ion conductivity of solid electrolytes composed mainly of zirconia (ZrO_2) at high temperatures.
- Microscopically, it is assumed that electrochemical reactions occur at the interface (three-phase interface) among a solid electrolyte, electrode and oxygen.
- High-oxygen partial pressure side: $O_2 + 4e- \rightarrow 2O_2-$ (ionization)
- Low-oxygen partial pressure side: $2O_2- \rightarrow O_2 + 4e-$ (molecularization).

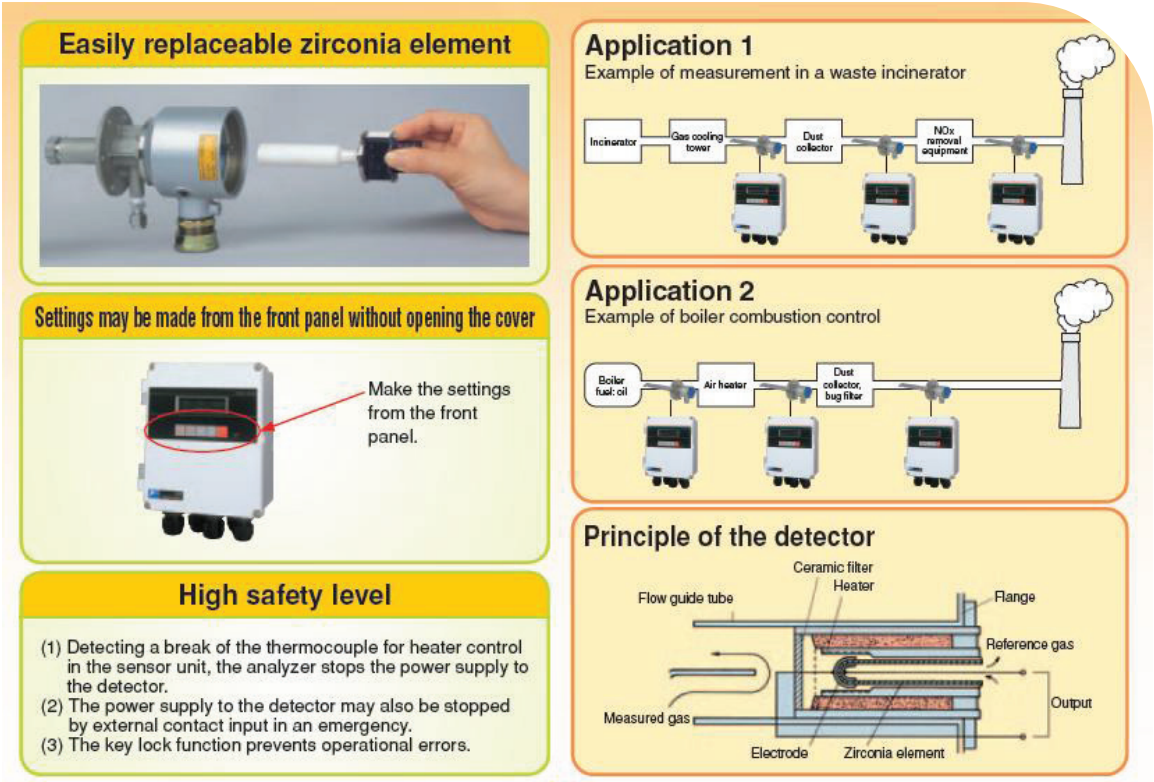


Installation:

The direct insertion type zirconia oxygen analyzer consists of the detector with a sensor unit, the flow guide tube that is directly inserted to the stack or the like in order to supply a gas to the detector, and the converter that performs sensor control, signal processing , output / display, and external transmission. The detector and converter are connected with a cable.

Function & Benefits:

- Fuel saving and Environment friendly.
- Modular detector design allows easy field replacement of element.
- High speed response.
- No need for gas sampling devices and a rapid response.



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