

Direct insertion type

# Zirconia Oxygen Gas Analyzers

Detector type: ZFK8 / Transmitter type: ZKM

**Zirconia oxygen gas analyzer, ideal for combustion control**



ZKM2



ZKM1



ZFK8

- Modular detector design allows easy field replacement of zirconia element
- Enhanced safety design with integrated and remote power isolation functions
- High-speed response of 4 to 7 seconds
- Case structure available in two types: IP66 and IP67
- May be programmed without opening the case cover (ZKM1)
- Direct insertion system eliminates the need for gas sampling devices

# Energy Saving and Environmentally Friendly

Fuji's zirconia oxygen gas analyzers are widely used; not only in industries of high energy consumption, such as steel, power, petroleum/petrochemicals, 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<sub>2</sub>, SO<sub>x</sub>, and NO<sub>x</sub> emissions and helping prevent global warming and air pollution.

The transmitter is available in two case structures: IP66 and IP67.



Transmitter <IP67>  
(Type: ZKM2)



Transmitter <IP66>  
(Type: ZKM1)



Zirconia oxygen detector  
(Type: ZFK8)



Detector with flow  
guide tube

## Easily replaceable zirconia element



## Settings may be made from the front panel without opening the cover



Make the settings  
from the front  
panel.

## High safety level

- (1) Detecting a break of the thermocouple for heater control in the sensor unit, the analyzer stops the power supply to the detector.
- (2) The power supply to the detector may also be stopped by external contact input in an emergency.
- (3) The key lock function prevents operational errors.

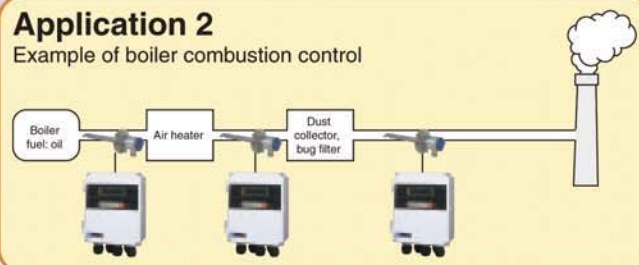
## Application 1

Example of measurement in a waste incinerator



## Application 2

Example of boiler combustion control



## Principle of the detector

