

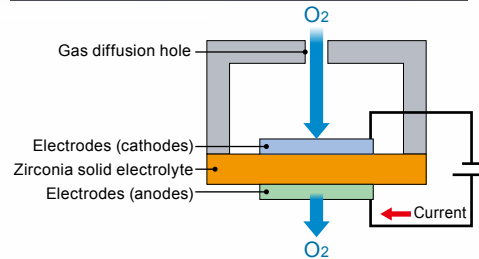
Oxygen concentration under pressure can be monitored.



Limiting current method

The PNA Series employs the limiting current method. Applying voltage to the zirconia element generates an ion current with oxygen ions as the carrier. The current characteristics change proportionally to changes in oxygen concentration, making oxygen concentrations detectable. Durability and a long service life can be expected from this method.

Measuring principle of the limiting current method

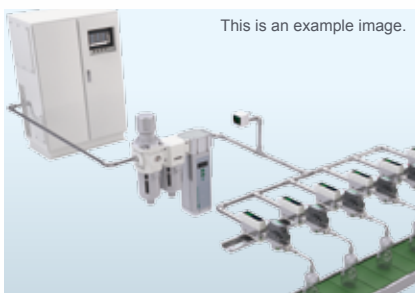


Inline Oxygen Monitor

PNA Series

Example of applications

Terminal concentration check



This is an example image.

- Concentration check at start of operations
- Constant concentration check
- Understanding oxygen status at maintenance

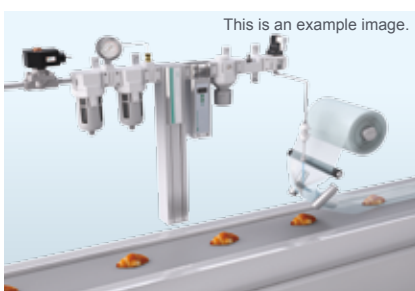
Gas concentration check in explosion-proof areas



This is an example image.

- Concentration check at start of operations
- Constant concentration check
- Dangerous concentration alarm

Filler nitrogen concentration check



This is an example image.

- Concentration check during nitrogen filling
- Concentration setting

Check gas for dissolved oxygen removal



This is an example image.

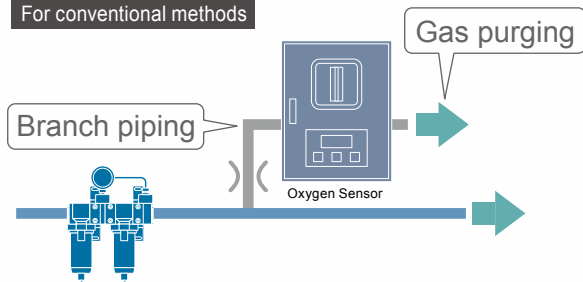
- Check oxygen concentration during removal
- Status monitoring

Savings in energy, piping and space

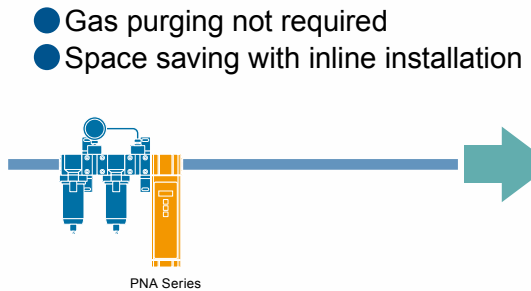
- Pressure resistant structure for inline use realized
- Modular structure saves space with reduced piping
- No gas purging required, unlike conventional models



For conventional methods



For PNA Series



Ease of operation

Switch between oxygen and inert gas concentration displays

- › With 100-oxygen concentration, inert gas concentrations can be known at a glance.

Upper/Lower limit concentration switch output settings possible/analog output possible

- › Alarm generation and status monitoring for concentration changes is possible.

With self-diagnostic function

- › Detection element errors are notified.

Degree of protection IP65 or equivalent

- › Safe even if wet.

Pressure resistant structure

- › Can be used under pressures from atmospheric pressure to 1.0 MPa.



Oxygen concentration display



Inert gas concentration display

Compatible with secure food manufacturing processes FP Series

Can be used for safe and secure food manufacturing processes.

Food Sanitation
ActMaterials
compatible
Fluid passage
sectionResin/Rubber



This logo represents CKD's stance to provide you with safe components for supporting your food manufacturing processes.

CKD after-sales service

A calibration certificate (with traceability system diagram) can be issued.

Depending on the usage conditions, the sensor part of the inline oxygen monitor may deteriorate. In order to maintain performance, regular inspection and adjustment are required. Yearly inspection and adjustment service (with calibration certificate) is recommended for maintaining long-term performance.



Feel free to contact CKD for inspection, calibration, and repair.