

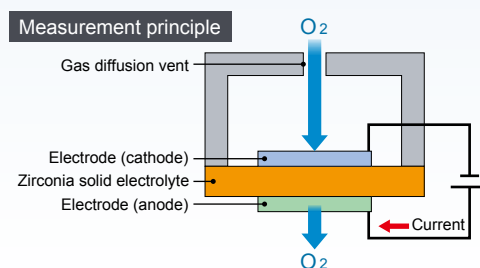
Oxygen concentration under pressure is now visible



Limiting Current Method

PNA series uses the limiting current method. Applying voltage to the zirconia element causes an ion current with oxygen ions as carriers. Since the current characteristics change proportionally with oxygen concentration, oxygen concentration can be detected. This method is durable and long life can be expected.

Measurement principle



Application Examples

End Point Concentration Check



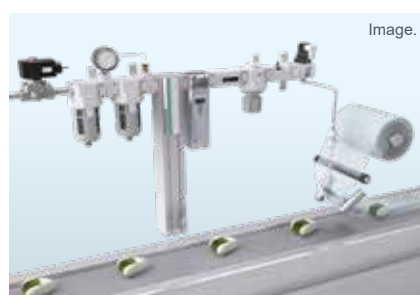
- Concentration check at start of work
- Constant check of concentration
- Grasping Maintenance Timing

Gas Concentration Check in Explosion-Proof Area



- Concentration check at start of work
- Constant check of concentration
- Hazardous Concentration Alarm

Filled Nitrogen Concentration Check



- Concentration check during Nitrogen filling
- Concentration Setting

Check of Gas for Dissolved Oxygen Removal



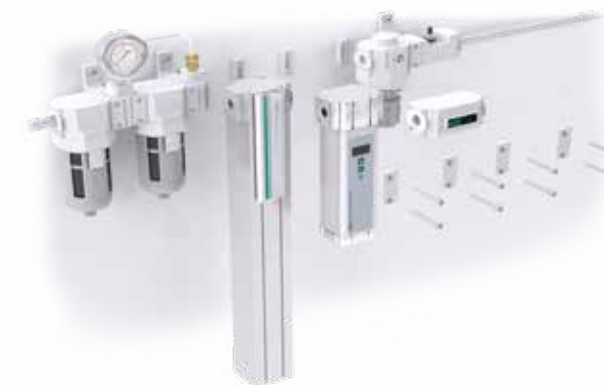
- Oxygen concentration check of removal gas
- Condition Monitoring

Energy, Piping, and Space Savings

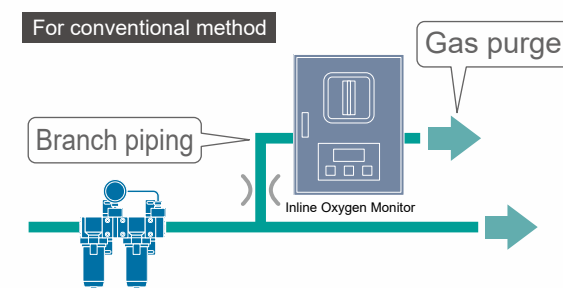
Achieves pressure-resistant structure usable inline

Space-saving piping with modular structure

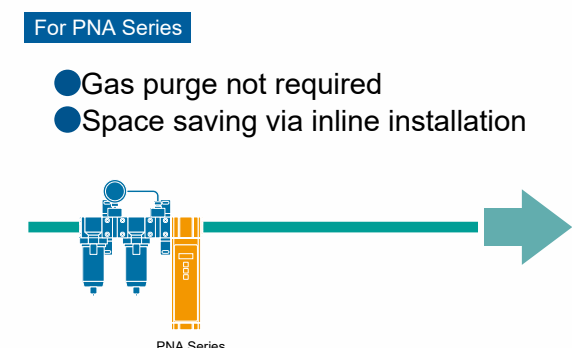
Gas purge conventionally required is unnecessary



For conventional method



For PNA Series



- Gas purge not required
- Space saving via inline installation

Easy to Use

Oxygen / Inert gas concentration display switchable

100 - Oxygen concentration allows you to see the inert gas concentration at a glance.

Upper/lower limit switch output setting / Analog output possible

Generate alarms and monitor the status of concentration changes.

With Self-Diagnosis Function

Notifies of detection element abnormalities.

Protection Structure IP65 Equivalent

Safe even if wet.

Pressure Resistant Structure

Usable under pressure from atmospheric pressure to 1.0 MPa.



Oxygen Concentration Display



Inert Gas Concentration Display

Safe Food Manufacturing Process FP Series Compatible

Can be used safely and securely even in food manufacturing processes.

Material compliant with Food Sanitation Act
Fluid passage section Resin / Rubber



This logo mark represents CKD's commitment to supporting food manufacturing processes with safe components.

* For details, refer to Catalog No. CC-1271AA.

CKD After-Sales Service

Issuance of calibration certificate (with traceability system diagram) is possible.

Depending on usage conditions, the sensor of the oxygen analyzer may deteriorate. Therefore, periodic inspection and adjustment are necessary to maintain stable performance. To maintain performance longer, we recommend the annual inspection and adjustment service (with calibration certificate).



Inspection / Calibration / Repair Please feel free to inquire.