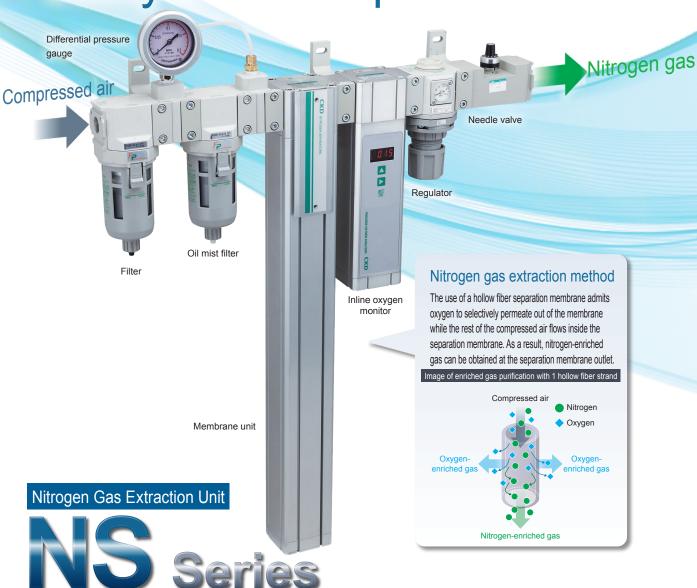
Nitrogen gas can be extracted easily from compressed air.



NS Series configuration



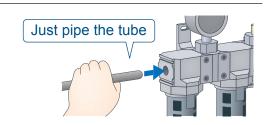
Install anywhere

Saves processes, piping, and space

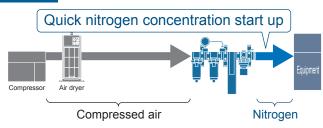
- With system components provided, design and piping are easy.
- The ideal system can be selected according to the required flow rate.
- Long piping work dedicated for nitrogen is unnecessary since it can be installed near equipment.

Power supply not required

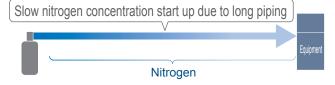
- Usable even in explosion-proof atmospheres, different voltage areas, etc.
- No malfunctions due to electrical noise.
- **)** Quiet, with no heat generation as there is no drive system.
 - *When selecting the Inline oxygen monitor (option), a power supply is required.



NS Series



Conventional method



Low cost

Running cost reduction

- The only required maintenance cost is electricity for the air compressor.
- No continuous running costs such as cylinder refilling costs.

Expense reduction

Troublesome cylinder management of remaining gases, or replacement work is not required.

Nitrogen gas cylinder and gas unit price comparison 90% or more cost reduction NS Series Nitrogen gas cylinder * Comparison assuming that the nitrogen gas concentration is 99% and the gas unit price is 100.

Easy maintenance

Sustainable reliability

- > Since there are no movable parts, stable performance can be maintained.
- Parts replacement is possible without disassembling the piping.

High Pressure Gas Safety Act not applicable

There is no need for notifications or assignment of qualified personnel.



Compatible with FP Series for secure food manufacturing processes

Can be used safely in food manufacturing processes.



Material compatible with the Food Sanitation Act Fluid passage section Resin /rubber



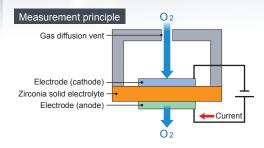
This logo mark stands for our brief that CKD's safe products support food manufacturing processes.

Oxygen concentration under pressure can be monitored



Limit current method

The PNA Series uses the limit current method. When voltage is applied to the zirconia element, an ion current flows with oxygen ions as carriers. When the oxygen concentration changes, the current characteristics change proportionally, enabling detection of the oxygen concentration. This method is highly durable and offers a long service life.

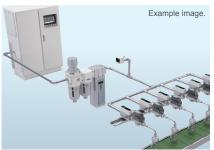


Inline Oxygen Monitor

PNA Series

Examples of applications

Terminal concentration check



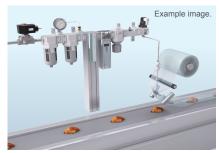
- Concentration check at start of work
 - Normal concentration check
 - Identification of maintenance timing

Concentration check for gas in explosion-proof areas



- Concentration check at start of work
- Normal concentration check
- Alarms for hazardous concentrations

Nitrogen filling concentration check



- Concentration check when filling nitrogen
- Concentration setting

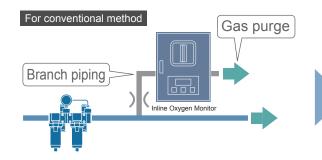
Checking gas for remaining oxygen removal



- Oxygen concentration check for removal gas
- Status monitoring

Saves energy, piping, and space

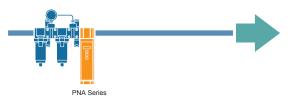
Realizing a pressure-resistant structure. The inline Modular structure saves piping space. Conventional gas purging is no longer necessary.





For PNA Series

- Gas purge not required
- Space saving via inline installation



Easy to use

Oxygen/inert gas concentration display is switchable

With 100-oxygen concentration, the inert gas concentration is clear at a glance.

Upper/lower limit switch output setting and analog output are available

Alarms can be set for concentration changes, and status monitoring is possible.

With self-diagnostic function

> Keeps you posted about abnormalities in the detector element.

Degree of protection IP65 or equivalent

> Wet or dry, it still functions.

Pressure-resistant structure

Usable at pressures from atmospheric pressure through 1.0 MPa.



Oxygen concentration display





Inert gas concentration display

Compatible with FP Series for secure food manufacturing processes

Can be used safely in food manufacturing processes.





This logo mark stands for our brief that CKD's safe products support food manufacturing processes.

CKD after-sales service

Calibration certificates (with traceability series variation diagram) can be issued.

The sensor of the inline oxygen monitor may deteriorate depending on the working conditions. Therefore, regular inspection and adjustment is required to maintain stable performance. For even longer consistent performance, we recommend the yearly inspection and adjustment service (with calibration certificate).



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