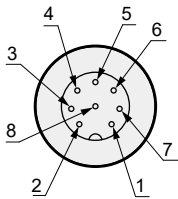


Model No. notation of connector cable / Dimensions

Note: The connector cable is sold separately from the main body.

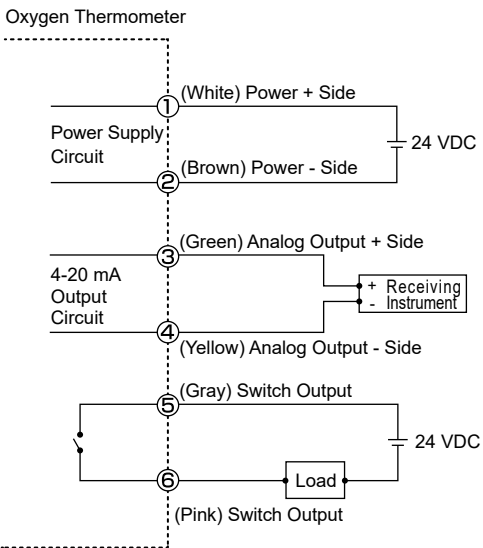
- DC cable
Use this cable when driving with a DC power supply or when using analog output or switch output.

Model No.	Dimension L
PNA-1D	1000
PNA-3D	3000
PNA-5D	5000



No.	Cable color	Description
1	White	Power supply +
2	Brown	Power supply -
3	Green	Analog output +
4	Yellow	Analog output -
5	Gray	Contact output (relay output)
6	Pink	
7	Blue	-
8	-	-

Wiring Example

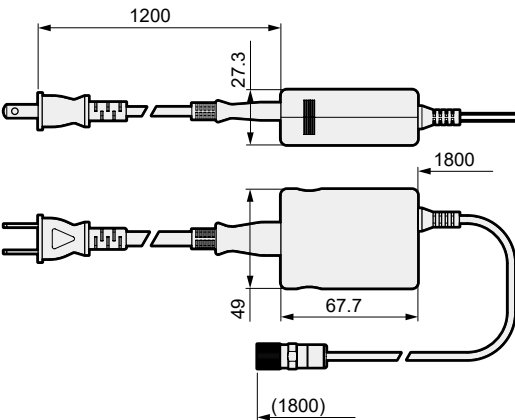


- AC adapter
Use when driving with an AC power supply.

Model No.	Description
PNA-A	AC adapter single unit A
PNA-AG	AC adapter + conversion plug set *Global power supply conversion plug B, C, O, BF included

• Plug shape

B-type	C-type	O-type	BF-type



Pneumatic components (oxygen monitor)

Safety Precautions

Be sure to read this section before use.
For general precautions for pneumatic equipment, please refer to Intro 15.

Product-specific cautions: Oxygen Sensor PNA Series

Design / Selection

CAUTION

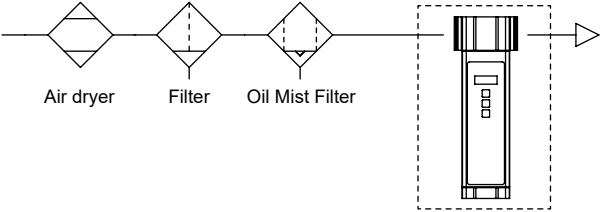
Working environment

- Avoid installing this product where it will be subject to direct sunlight or rain.
- In the following atmospheres, the oxygen concentration monitor may generate measurement errors, or the performance of the components or oxygen detection element may suffer.
- Use outside the 0 to 50°C temperature range or with elements other than air causes significant measurement errors. Avoid using in such conditions.
- Air containing freon gas, silicon-based gas, SOx (sulfur oxide), H2S (hydrogen sulfide) or other corrosive gases, Cl2 (chlorine), F2 (fluorine), Br2 (bromine) or other halogen gases, or air that separates into these gases at high temperatures of approx. 500°C cannot be used.
- If used in air containing flammable gases, the flammable gas will burn and the results will decrease.
- Use in air containing large quantities of dust or oil mist will lead to element deterioration.
- The element will be damaged if the sensor is exposed to liquids such as water drops or liquid solutions.
- The element will be damaged if used in locations with strong impacts or vibrations.
- Avoid use in locations with strong magnetic fields or significant electrical noise.
- The results will fail to stabilize in environments where the pressure pulses (changes continuously) in a short cycle. Static pressure is required for stable measurements.

■ Use after confirming the structure and material, valve structure, working fluids, and working atmospheres of each component carefully for yourself.

Check the working circuit and working fluid.

To prevent decreased oxygen concentration monitor performance, install the dryer, air filter and oil mist filter on the primary side, and remove water or oil.



■ This product does not have explosion-proof specifications. Since the detection element is heated by the heater, it may lead to an explosion if used in an explosive atmosphere.

■ This product is not an oxygen detector. Do not use it as an oxygen concentration monitor in accordance with the Industrial Safety and Health Laws.

■ When using this product as a CE compliant product, prepare a dedicated power supply.

CE-compliance working conditions

This product is CE-marked, indicating conformity with the EMC Directives. The standard for the immunity for industrial environments applied to this product is EN61326-1. The following stability is applicable in an EMC Directive demand test environment.

Stability $\pm 0.5\% \text{ O}_2 \pm 1\text{digit}$ (For 0.00 to 10.00% O_2 .)
 $\pm 1.0\% \text{ O}_2 \pm 1\text{digit}$ (For 10.01 to 25.00% O_2 .)

■ Do not disassemble or modify the product as this may cause malfunctions.

■ The sensor may deteriorate depending on the working conditions. Calibration once a year is recommended for maintaining long-term performance.

For precautions during mounting, installation, adjustment, use and maintenance, refer to the CKD Components Product Site (<https://www.ckd.co.jp/kiki/en/>) → "Model No. → Instruction Manual"