

### Inline Oxygen Analyzer

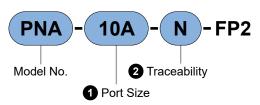
# **PNA** Series

Inline pressure-resistant structure, purge unnecessary Modular structure connectable to Nitrogen Extraction Unit NS Series, F.R. Unit



For detailed applicable model numbers, refer to our website.

#### Model No. Indication Method



\*: Connector cable is not included.

#### 1 Port Size

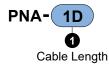
Code	Content	
10A	Rc3/8	
10B	G3/8	
10C	NPT3/8	

#### 2 Traceability

Code	Content
N	None
М	With Traceability Certificate, System Diagram, Inspection Report

#### Connector Cable Standalone Model No.

●DC Cable



1 Cable Length

	Code	Content
	1D	1000 mm
<b>3D</b> 3000		3000 mm
	5D	5000 mm

AC Adapter Standalone

PNA-A

●AC Adapter + Conversion Plug Set

**PNA-AG** 

For Dimensions diagrams, refer to P. 32.

#### **Specifications**

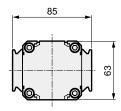
<u> </u>			
Item		PNA	
Measurement Metho	d	Zirconia Solid Electrolyte Method	
Sampling Method		Natural Diffusion Type	
Display		Oxygen concentration display, nitrogen concentration display (100 -	oxygen concentration) switchable
Operating Fluid		Nitrogen-Enriched Compressed Ai	r
Working pressure	MPa	0 to 1.0	
Proof pressure	MPa	1.5	
Ambient Temperature	e, Humidity	0 to 50°C, 80% RH or less (No condens	ation)
Fluid Temperature		0 to 50°C (No condensation)	
Storage Ambient Tempe	rature, Humidity	-10 to 60°C, 80% RH or less (No conden	sation)
Max. Flow Rate	L/min (ANR)	500 (*1)	
Measured range	%O <sub>2</sub>	0.00 to 25.00	
		±0.05 %O <sub>2</sub> ±1digit (for 0.00 to 1.00%O <sub>2</sub>	.)
Acquirect	*2	±0.10%O <sub>2</sub> ±1digit (for 1.01 to 2.50%O <sub>2</sub>	.)
Accuracy		±0.5%O <sub>2</sub> ±1digit (for 2.51 to 10.00%)	O <sub>2</sub> .)
		±1.0%O <sub>2</sub> ±1digit (for 10.01 to 25.00%	$O_2$
Response Time	sponse Time 90% response within 20 seconds (*3)		:3)
Analog Output		4 to 20 mA current output (for 0.00 to 25.0	00% O <sub>2</sub> )
Analog Output Load	Resistance	0 to 400 Ω	
Analog Output Accura	асу	0.064 mA/0.1% O <sub>2</sub>	
Switch Output		Setting value and detection element abnormality: 1 pc (Relay output)	
Switch Output Capac	ity	24 VDC, 1A (*4)	
Power Supply Voltag	е	24 VDC ±15% (When using AC adapter: 100 VAC to 240 VAC)	
Power Consumption		10 W or less	
Protection Structure		IP65 Equivalent	
EMC Directive	ve EN61326-1		
Weight	kg	1.6	
Warm-up Time			<del>(</del> 5)
#1) If exceeding 500 L/min (AND), places inquire		nnot be used with AC	

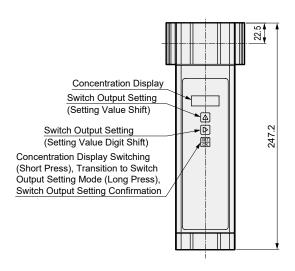
<sup>\*1)</sup> If exceeding 500 L/min (ANR), please inquire.

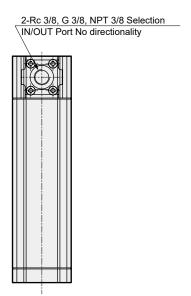
- \*2) Value in dry gas consisting of oxygen and nitrogen.
- \*3) Response time is the value at a flow rate of 5 L/min (ANR) or more.
- \*4) Switch output capacity is DC only. Cannot be used with AC.
- \*5) During warm-up, analog output and switch output are not output.



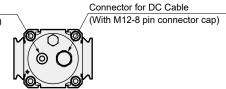
## Non-disassemblable







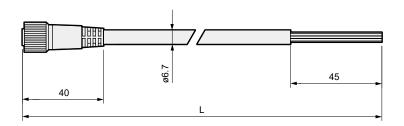
Connector for AC Adapter (With M8-3 pin connector cap)



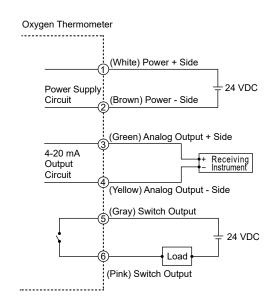
#### DC Cable

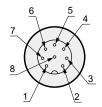
Use when driving with DC power and when using analog output or switch output.

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



#### Wiring Example





No.	Cable Color	Content
1	White	Power +
2	Brown	Power -
3	Green	Analog Output +
4	Yellow	Analog Output -
5	Gray	Contact Output
6	Pink	(Relay Output)
7	Blue	-
8	-	-

#### AC Adapter

Use when driving with AC power.

	<u> </u>	
Model No.	Content	
PNA-A	AC Adapter Standalone Type A	
PNA-AG	AC Adapter + Conversion Plug Set  * Global power conversion plugs B, C, O, BF type included	

#### • Plug Shape

B-type	C-type	O-type	BF-type
0 0			

