



Inline Oxygen Monitor

Materials compliant with the Food Sanitation Act

PNA Series

Purging not required due to the inline pressure resistant structure
A modular structure that can be connected to the Nitrogen Extraction Unit NS Series and F.R.L. unit



Specifications

Descriptions	Content
Measuring method	Zirconia solid electrolyte method
Sampling method	Natural diffusion method
Display	Switchable oxygen concentration display and nitrogen concentration display (100-oxygen concentration)
Working fluid	Nitrogen-rich compressed air
Working pressure MPa	0 to 1.0
Proof pressure MPa	1.5
Ambient temperature and humidity	0 to 50°C, 80% RH or less (no condensation)
Fluid temperature	0 to 50°C (no condensation)
Storage ambient temperature, humidity	-10 to 60°C, 80% RH or less (no condensation)
Max. flow rate L/min (ANR)	500 *1
Measured range %O ₂	0.00 to 25.00
Accuracy *2	For 0.00% to 1.00% O ₂ ±0.05% O ₂ For 1.01% to 2.50% O ₂ ±0.10% O ₂ For 2.51% to 10.00% O ₂ ±0.5% O ₂ For 10.01% to 25.00% O ₂ ±1.0% O ₂ *Note: There is a ±0.01% O ₂ read accuracy that will be reflected in the display.
Response time	90% response within 20 s *3
Analog output	4 to 20 mA current output (for 0.00 to 25.00% O ₂)
Load resistance of analog output	0 to 400 Ω
Analog output accuracy	0.064 mA/0.1% O ₂
Switch output	Set value and detection element error: 1 (relay output)
Switch output capacity	24 VDC, 1 A
Power supply voltage	24 VDC ±15% (with AC adapter: 100 to 240 VAC)
Power consumption	10 W or less
Degree of protection	IP65 or equivalent
Weight kg	1.6
Warming up time	Approx. 5 min after turning the power ON *4

*1 Contact CKD when 500 L/min (ANR) is exceeded.

*2 Value referring to the dry gas made up of oxygen and nitrogen.

*3 The response times are for flow rates of 5 L/min (ANR) or more.

*4 While warming up, analog output and switch output cannot be output.

How to order

PNA - 10A - N - FP2

A Port size

B Traceability

Code	Content
A Port size	
10A	Rc3/8
10B	G3/8
10C	NPT3/8
B Traceability	
N	None
M	Traceability certification with series variation diagram and company certification

* Connector cable is not included. Refer to page 2 for details.

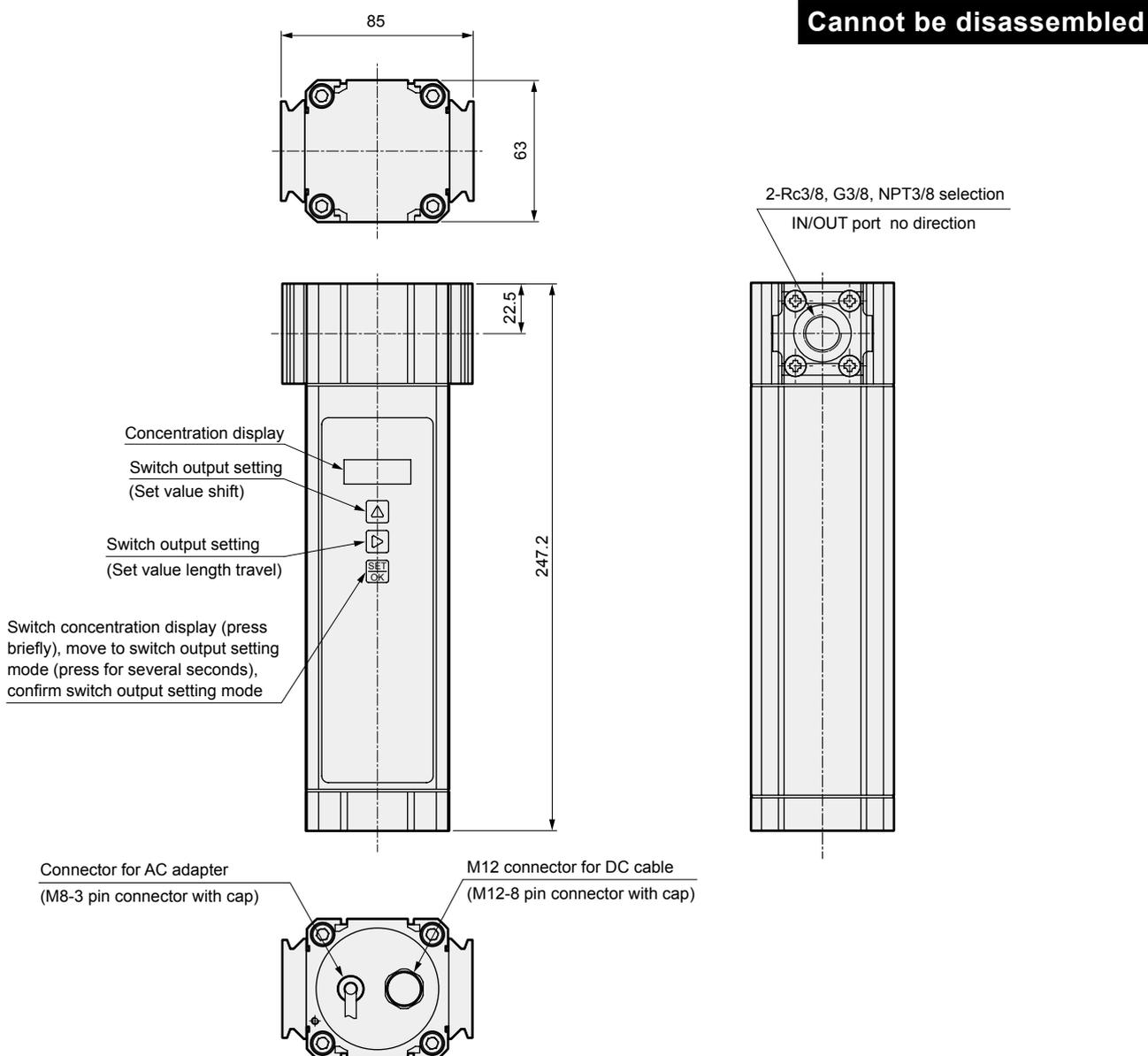
[Example of model No.]

PNA-10A-M-FP2

A Port size : Rc3/8

B Traceability: Traceability certification with series variation diagram and company certification

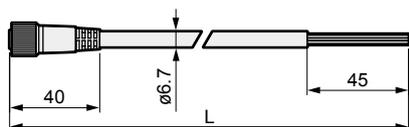
Dimensions



Connector cable dimensions

● DC Cable

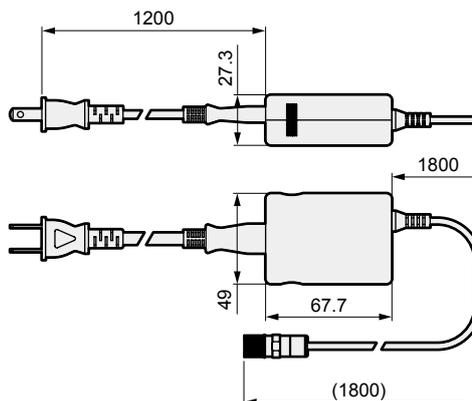
Connector cable discrete model No.: **PNA-1D, 3D, 5D**



Model No.	L dimensions	No.	Cable color	Content
PNA-1D	1000	1	White	Power supply +
PNA-3D	3000	2	Brown	Power supply -
PNA-5D	5000	3	Green	Analog output +
		4	Yellow	Analog output -
		5	Gray	Contact output (relay output)
		6	Pink	Contact output (relay output)
		7	Blue	-
		8	-	-

● AC Adapter

Connector cable discrete model No.: **PNA-A**



Connector cable + converter plug set model No.: **PNA-AG**

* Compatible with B, C, O, and BF